

ALGEBRA 2 BELLRINGER 8/23/2013 & 8/26/2013

1.
$$|6x| < 30$$

PRE CAL BELLRINGER 8/23/2013 & 8/26/2013

1. FIND THE DOMAIN & RANGE:

2. FIND THE DOMAIN & RANGE:

$$Y = 3 + \sqrt{\tau}$$

GEOMETRY BELLRINGER 8/26/2013

1. FIND THE EQUATION OF THE LINE THAT GOES THRU (-1, -2) AND HAS A SLOPE OF -3.

2. FIND THE EQUATION OF THE LINE THAT GOES THRU (1, 4) & (-5, 2)

ALGEBRA 2 BELLRINGER 8/27/2013 & 8/28/2013

2. 6
$$|5-x| \le 2$$

3. Solve this system of Inequalities by graphing: (I can provide you with a sheet of graph paper if you need it)

$$y > |x-2|$$
$$y \le x + 3$$

PRE CAL BELLRINGER 8/27/2013 & 8/28/2013

1. FIND THE DOMAIN & RANGE:

$$Y = \sqrt{-}$$

2. FIND THE DIFFERENCE QUOTIENT:

$$f(x) = 3 - +$$

GEOMETRY BELLRINGER 8/28/2013

- 1. Draw two parallel lines and a transversal
- 2. Add two angles to #1 that are alternate exterior angles and label them <A & <B
- 3. Add two angles to #1 that are same side interior angles and label them <C & <D
- 4. Add two angles to #1 that are corresponding angles and label them <E & <F

ALGEBRA 2 BELLRINGER 8/29/2013 & 8/30/2013

Solve and graph:

1.
$$2 - 2 | 3 - x | \le 10$$

2. Solve this system of Inequalities by graphing: (I can provide you with a sheet of graph paper if you need it)

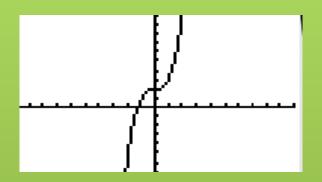
$$y > |2x - 3|$$

 $y \le -4x + 6$

$$y \leq -4x + 6$$

PRE CAL BELLRINGER 8/29/2013 & 8/30/2013

1. FIND THE DOMAIN & RANGE:



2. WHERE IS THE FUNCTION IN #1 INCREASING, CONSTANT AND/OR DECREASING?

GEOMETRY BELLRINGER 8/30/2013

- 1. What is the slope of this line? y = -x + 4
- 2. Where does this line cross the y-axis?
- 3. What is the slope of a line that is parallel to the line in #1?
- 4. What is the slope of a line that is perpendicular to the line in #1?
- 5. What is the midpoint between these two points?(1, 3) & (4, -3)

ALGEBRA 2 BELLRINGER 9/3/2013 & 9/4/2013

Solve and graph:

1.
$$3 - 4 | 3 - x | \le 19$$

GEOMETRY BELLRINGER 9/4/2013

- 1. What is the slope of this line? y = -x 5
- 2. What is the x-intercept of this line?
- 3. What is the y-intercept of this line
- 4. What is the equation of the line that is parallel to the line in #1 and goes thru the point (3, 2)?
- 5. What is the slope of the line that is perpendicular to the line in #1 and goes thru the point (5, 0)?

ALGEBRA 2 BELLRINGER 9/5/2013 & 9/6/2013 1.Find the minimum for this objective function (C = 3x + 4y)given these constraints:

$$x + 2y \le 6$$

$$x \ge 2$$

$$y \ge 1$$

You will need graph paper. If you would like to borrow a piece, please raise your hand and ask me.

PRE CAL BELLRINGER 9/5/2013 & 9/6/2013

1. FIND THE DIFFERENCE QUOTIENT:

$$() = + x - 2$$

2. Find the relative min & the max for

$$f(x) = - -$$

3. Write the equation of the line perpendicular to this line y = -2x - 3 and goes thru the point (-4, -2)

GEOMETRY BELLRINGER 9/6/2013

Find the other endpoint of the line segment with the given endpoint and midpoint.

- 1) Endpoint: (-1, 9), midpoint: (-9, -10)
- 2) Endpoint: (5, 2), midpoint: (-10, -2)
- 3) Endpoint: (-9, 7), midpoint: (10, -3)

ALGEBRA 2 BELLRINGER 9/9/2013 & 9/10/2013

Solve and graph:

1.
$$3 - 4 | 3 - x | \le 19$$

2. Solve this system of Inequalities by graphing: y > |x + 2|-1

$$y \leq -2x + 3$$

If you need graph paper, please raise your hand and ask me.

PRE CAL BELLRINGER 9/9/2013 & 9/10/2013

1. Graph these functions by using an old-fashioned x/y chart:

a.
$$f(x) = x^2$$

b.
$$f(x) = x^2 - 4$$

c.
$$f(x) = (x - 3)^2$$

d.
$$f(x) = (x - 3)^2 - 4$$

ALGEBRA 2 BELLRINGER 9/11/2013 & 9/12/2013

Solve each equation below

$$3x + 7 = 19$$
0 1.
7 + 4x = 31

$$7 + 4x = 31$$

o 3.
$$26 - 3x = 4x + 19$$

$$3.5(x+2) + 2(x+2) = 0$$

PRE CAL BELLRINGER 9/11/2013 & 9/12/2013

FIND THE DIFFERENCE QUOTIENT:

$$() = + x - 2$$

2. NOW, FIND IT USING THIS FORMULA

$$\frac{f(5+h)-f(5)}{h}$$

ALGEBRA 2 BELLRINGER 10/8/2013 & 10/9/2013

Evaluate each function for x = -3, 0 & 3

1.
$$f(x) = -2$$

2.
$$f(x) = -$$

Write Each equation in slope-intercept form

3.
$$x + 4y = 8$$

4.
$$2x - y = -7$$

PRE CAL BELLRINGER 10/8/2013 & 10/9/2013

1. Find the vertex and x-intercepts (no calculators!)

$$F(x) = + +$$

SMUGI ALGEBRA 2 10/8/2013 & 10/9/2013

- NAME 2 THINGS THAT YOU LEARNED ABOUT QUADRATIC FUNCTIONS TODAY
- 2. DETERMINE WHETHER THIS FUNCTION IS LINEAR OR QUADRATIC: F(X0 = (X + 5)(X 3)
- 3. FIND A QUADRATIC MODEL FOR THE BELOW TABLE OF VALUES AND THEN DETERMINE THE VALUE WHEN X = 5

X	-4	0	1
F(X)	1	9	16

GEOMETRY BELLRINGER 12/13/13

		Didiii(0)	
1			_angles are always
Λ n	4		

2. _____angles are always_____

Solve

Fill in the blanks:

- 3. Two same-side angles have measurements of $(x + 2)^\circ$ and $(2x 6)^\circ$. Find the measurements of both angles.
- 4. Two corresponding angles have measurements of $(x + 2)^\circ$ and $(2x-6)^\circ$. Find the measurements of both angles.

ALGEBRA 2 BELLRINGER 10/14/2013 & 10/15/2013

Graph this parabola:

$$Y = + -$$

PRE CAL BELLRINGER (NO CALCULATORS!!) 10/14/2013 & 10/15/2013

1. Factor: + +

2. Factor: - -

3. Divide: 336 ÷ 14

4. Divide: 4,875 ÷ 15

5. Divide: 98,568 ÷ 444

GEOMETRY BELLRINGER 10/15/2013

O In the figure below, ray was constructed starting from rays and . By using a compass, D and G were marked equidistant from E on rays and . The compass was then used to locate a point F, distinct from E, so that F is equidistant from D and G. For all constructions defined by the above steps, the measures of

DEF and **GEF**:

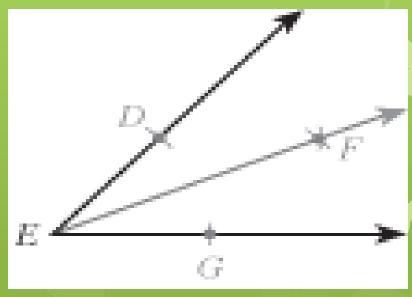
• F. are equal.

• G. are NOT equal.

O H. sum to 30°.

O J. sum to 45°.

• K. sum to 60°.



GEOMETRY BELLRINGER 10/23/2013

- 1. What is the slope of this line? y = -x 5
- 2. What is the x-intercept of this line?
- 3. What is the y-intercept of this line
- 4. What is the equation of the line that is parallel to the line in #1 and goes thru the point (3, 2)?
- 5. What is the slope of the line that is perpendicular to the line in #1 and goes thru the point (5, 0)?

ALGEBRA 2 BELLRINGER 11/1/2013 & 11/4/2013

What are the domain and the range of this function?

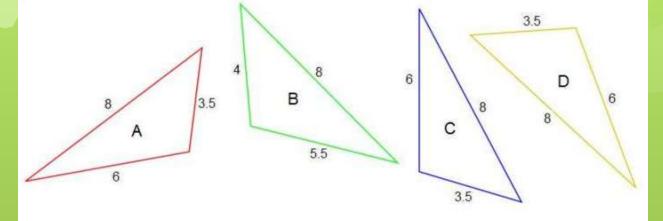
1.
$$y = + -$$

PRE CAL BELLRINGER 11/1/2013 & 11/4/2013

- **1. Factor:** + -
- 2. Factor: + -
- 3. Solve by factoring: =3

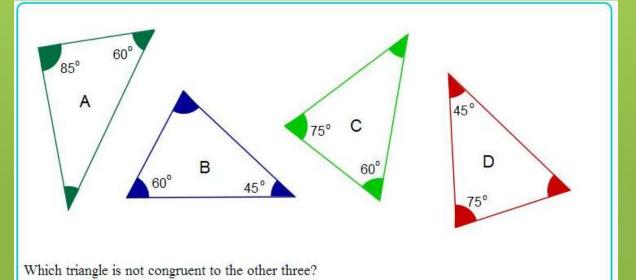
GEOMETRY BELLRINGER 11/4/2013

1



Which triangle is NOT congruent to the other three?

2



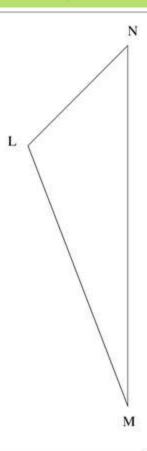
GEOMETRY BELLRINGER 11/8/2013

Given:

- $m\angle N = 42^{\circ}$
- *m*∠L = 116°

Prove:

 $m\angle M = 22^{\circ}$



ALGEBRA 2 BELLRINGER 11/12/2013 & 11/13/2013

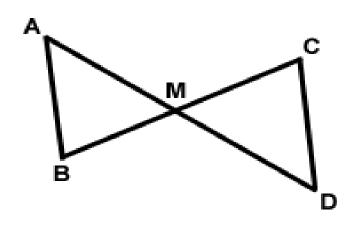
What are the domain and the range of these functions?

1.
$$y = + -$$

$$3. = \sqrt{-}$$

4. Factor this quadratic equation:

GEOMETRY BELLRINGER 12/4/2013



Given:

Segment AD bisects segment BC.

Segment BC bisects segment AD.

Prove:

Triangles ABM and DCM are congruent.

ALGEBRA 2 BELLRINGER 11/14/2013 & 11/15/2013

The function $y = (x + 2)^2 + 3$ is reflected across the y-axis. What are the coordinates of the vertex after this reflection?

Which transformations can be performed on the graph of $f(x) = x^2$ that result in the graph of $f'(x) = -2x^2 - 12x - 13$?

ALGEBRA 2 BELLRINGER 12/3/2013 & 12/4/2013

- Consider the real-valued functions $f(x) = x^2 6$ and g(x) = 2x 3.
 - A. What are the domain and range of each function? Explain how you determined your answers.
 - B. Find f(g(x)). Show your algebraic work, and explain the approach you used to find your answer.
 - C. What are the domain and range of f(g(x))? Show your algebraic work, and explain the approach you used to find your answer.





PRE CAL BELLRINGER 12/3/2013 & 12/4/2013

- 1. What is the distance between these points? (1,-3) & (-4, 9)
- 2. If $\sin(x) = \frac{\sqrt{}}{}$, ()?

- 3. If a circle is centered at (2, -3) and is tangent to the x-axis, what is the equation of this circle?
- 4. In a race, Shyann runs 2 miles in 20 minutes and 48 seconds. What is her rate in mph? (round to the nearest hundredth)

ALGEBRA 2 BELLRINGER 12/3/13 & 12/4/13

Find the discriminant of each quadratic equation then state the number and type of solutions.

1)
$$-x^2 - 7x + 5 = -3$$

Solve each equation by factoring.

2)
$$x^2 - 2 = x$$

Solve each equation with the quadratic formula.

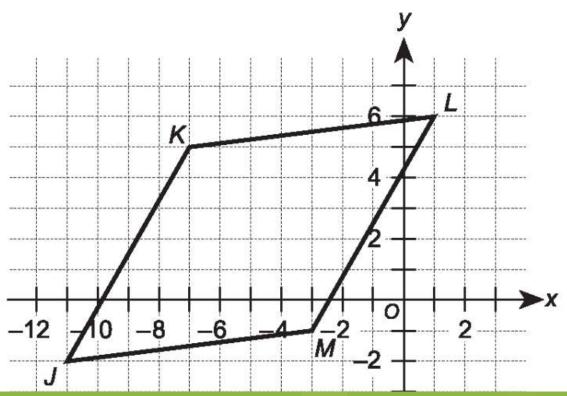
3)
$$6n^2 = -12n + 21$$

Solve each equation by completing the square.

4)
$$m^2 - 2m - 28 = -4$$

Geometry Bellringer 12/6/13

Quadrilateral *JKLM* is graphed in the coordinate plane. Classify quadrilateral *JKLM* as specifically as possible. Show your work, and explain why your answer is correct.



Pre Cal Bellringer 12/5/2013 & 12/6/2013

Siven the function:

$$y = \frac{x^2 - 2x - 24}{x^2 + 3x - 4}$$

A. Find all vertical and horizontal asymptotes, all removable discontinuities, and the x- and y-intercepts of the graph of the equation. Show your work, and

Geometry Bellringer 12/11/13

Quadrilateral ABCD has diagonals that are perpendicular. It also has exactly one pair of opposite angles with equal measure. What type of quadrilateral is it?

PreCal Bellringer Monday 12/16/13 & Tuesday 12/17/13

What are the zeros of $f(x) = x^3 - 2x^2 - 16x - 16$?

Then Graph this function by hand by finding all local extrema and then sketching in the graph

Algebra 2 Bellringer 12/12/13 & 12/13/13

- O Solve this quadratic equation: - =
- (a)By factoring
- (b) By Completing the Square
- (c)By using the Quadratic Formula

ALGEBRA 2 BELLRINGER

WEDNESDAY 12/18/13

- 1. SOLVE AND GRAPH |X|-3>0
- 2. SOLVE AND GRAPH | 3X-2 | < 7

PRE CAL BELLRINGER 12/18/13

• FIND ALL ROOTS OF THIS EQUATION:

$$3X^4 + 6X^3 - 123X^2 - 126X + 1,080 = 0$$

HINT: TRY 3 FIRST, THEN 5...

GEOMETRY BELLRINGER 2/18/2014

Show that A(2, -1), B(1, 3), C(6, 5), and D(7, 1) are the vertices of a parallelogram.

PRE CAL BELLRINGER TUESDAY 1/14/14 & WEDNESDAY 1/15/14

Completely simplify $\frac{x^{-2} \cdot x^2}{x}$

ALGEBRA 2 BELLRINGER THURSDAY 1/16/14 & FRIDAY 1/17/14

- Consider the circle with the equation $(x-2)^2 + (y+3)^2 = 64$.
 - A. What are the center and radius of the circle? Explain how you determined your answer.
 - B. Sandy says (-2,-10) is a point on the circle. Is Sandy correct? Show your work algebraically, and explain how you made your decision.
 - C. Graph the circle. Explain the procedure you used to graph the circle.



PRE CAL BELLRINGER THURSDAY 1/16/14 & FRIDAY 1/17/14

Mr. Jones wants to invest \$5,000 in a certificate of deposit (CD) that is compounded continuously. The CD will earn \$1,000 over a term of 3 yr.

A. Find the interest rate, as a percent rounded to the nearest tenth, that is necessary to earn \$1,000. Do not use a graph from your calculator. Show your work, and explain how you found your answer.

GEOMETRY BELLRINGER FRIDAY 1/17/14

FIND THE MEASURE OF AN ANGLE OF EACH REGULAR POLYGON:

- 1. TRIANGLE
- 2. QUADRILATERAL
- 3. HEXAGON
- 4. OCTAGON
- 5. DECAGON
- 6. 14-A-GON

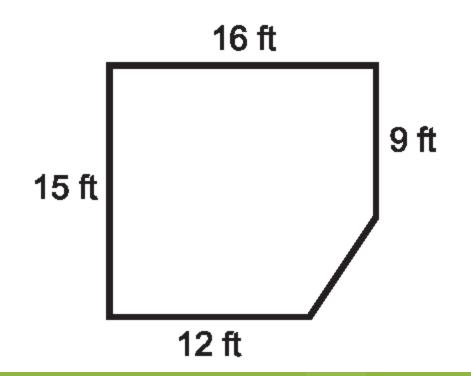
ALGEBRA 2 BELLRINGER MONDAY 1/27/14 & WEDNESDAY 1/29/14

Consider the function $g(x) = -(x+3)^2 + 1$.

- A. Describe the transformations that could occur to the graph of $f(x) = x^2$ to get g(x).
- B. Graph g(x) using the vertex and at least 3 points on one side of the vertex. Show your work algebraically and label the points using ordered pairs.
- C. What are the domain and range of g(x)? Explain how you determined your answers.

GEOMETRY BELLRINGER WEDNESDAY 1/29/14

The classroom, represented in the figure, needs new tile. Find the minimum square feet of tile needed to cover the area of the classroom.



ALGEBRA 2 BELLRINGER THURSDAY 1/30/14 & FRIDAY 1/31/14

This is the equation of a parabola:

$$y = -2x^2 + 4x + 2$$

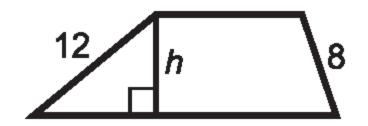
Determine the x-value for the vertex and whether this value is a maximum or a minimum.

What is the standard form of this equation of a circle?

$$3x^2 + 3y^2 - 6x + 18y + 18 = 0$$

GEOMETRY BELLRINGER FRIDAY 1/31/14

The area of the trapezoid is 90 cm². The perimeter is 50 cm. What is the height, to the nearest hundredth of a centimeter, of the trapezoid?



PRECAL BELLRINGER THURSDAY 1/30/14 & FRIDAY 1/31/14

SIMPLIFY USING EXPONENT RULES:

$$\left(\frac{m^3p^5}{n^7}\right)^6 \bullet \left(\frac{m^2n^0p^3}{m^4n^2}\right)^3$$

2

$$(5x^7y^3z^{-1})^2 \bullet (2xy^{-5})^3 \bullet (2y^{-3}z^2)^3$$

$$\left(\frac{m^0}{n^{-\frac{1}{2}}n^{-1}\cdot n}\right)^2$$

ALGEBRA 2 BELLRINGER TUESDAY 2/4/14 & WEDNESDAY 2/5/14

The general form of a particular circle is $x^2 + y^2 - 4x + 2y - 11 = 0$.

- A. What is the standard form of the equation of the circle? Show your work algebraically, and explain the approach you used to find your answer.
- B. Determine the coordinates for the center of the circle. Explain how you determined your answer.

PRECALCULUS BELLRINGER TUESDAY 2/4/14 & WEDNESDAY 2/5/14

$$\frac{\left(x^2y^3\right)^4}{\left(xy\right)^2}$$

$$x^0 + \sqrt{\frac{x^4}{y^6}}$$

$$\left(x^{\frac{1}{3}} + x^{-\frac{1}{3}}\right) \left(x^{\frac{2}{3}} - 1 + x^{-\frac{2}{3}}\right)$$

Simplify $\log_b a^3 - \log_b a^2$

GEOMETRY BELLRINGER TUESDAY 2/4/14

A Ferris wheel with 20 equally spaced seats has a diameter of 28 m. What is the arc length, in meters, between consecutive seats?

ALGEBRA 2 BELLRINGER TUESDAY 2/11/14 & WEDNESDAY 2/12/14

Which conic section is given by the equation $(x - h)^n = j(y - k)^m - 12$ when n = 2, m = 1, and j = -2?

PRECALCULUS BELLRINGER TUESDAY 2/11/14 & WEDNESDAY 2/12/14

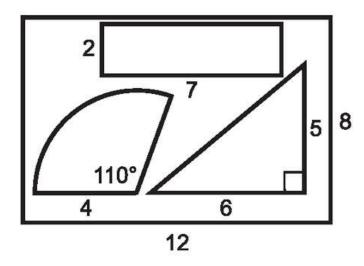
Evaluate
$$\frac{\log_5 25}{\log_5 5}$$
.

Evaluate $\log_{10}\left(\frac{10}{\sqrt[3]{10}}\right)$.

If
$$8^0 + \frac{2}{3} = \left(\frac{3}{5}\right)^{2-3x}$$
, find x.

GEOMETRY BELLRINGER TUESDAY 2/11/14

For a carnival game, a person chooses 1 of 3 shapes on a rectangular board: a sector of a circle, a rectangle, and a triangle. Then, 1 point on the board is selected at random and lights up. If the point is within the shape the player chose, he or she wins a prize. All lengths are in inches.



- A. Which of the 3 shapes should Keisha choose to have the greatest probability of winning? Find the probability, to the nearest tenth of a percent, of winning for each of the 3 shapes. Show your work, and explain how you found your answer.
- B. Keisha, JoAnna, and Ricardo play the game at the same time and each chooses a different shape. To the nearest tenth of a percent, what is the probability that none of them will win? Show your work algebraically, and explain how you founc your answer.

THURSDAY 2/13/14 & FRIDAY 2/14/14

Write the equation of this circle in standard form:

$$x^2 + y^2 - 2x - 4y - 4 = 0$$

- What is the center of this circle?
- What is the radius of this circle?
- What would the equation of this circle be if you moved it up 4 and left 5?

PRECALCULUS BELLRINGER THURSDAY 2/13/14 & FRIDAY 2/14/14

Which expression is equivalent to $ln(3e^{2x})$?

A. $2x + \ln 3$

B. 2*x* ln 3

C. 6*x*

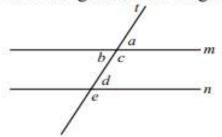
1.

D. 3 ln 2x

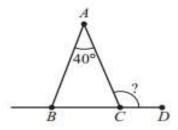
If $\log_2 x = -3$, what is x?

GEOMETRY BELLRINGER FRIDAY 2/14/14

1. In the figure below, line m is parallel to line n, and line t is a transversal crossing both m and n. Which of the following lists has 3 angles that are all equal in measure?



- A. $\angle a$, $\angle b$, $\angle d$
- B. Za, Zc, Zd
- C. ∠a, ∠c, ∠e
- \mathbf{D} . $\angle b$, $\angle c$, $\angle d$
- E. ∠b, ∠c, ∠e
- 2. As shown in the figure below, $\triangle ABC$ is isosceles with the length of \overline{AB} equal to the length of \overline{AC} . The measure of $\angle A$ is 40° and points B, C, and D are collinear. What is the measure of $\angle ACD$?



- A. 70°
- B. 80°
- C. 110°
- D. 140°
- E. 160°

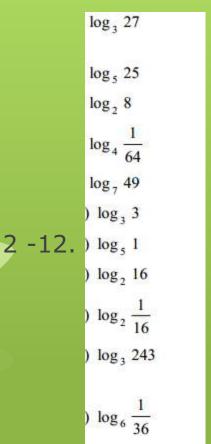
ALGEBRA BELLRINGER MONDAY 2/17/14 & TUESDAY 2/18/14

Solve and graph:

1.
$$3 - 4 | 3 - x | \le 19$$

PRECALCULUS BELLRINGER MONDAY 2/17/14 & TUESDAY 2/18/14

Which is the radian equivalent to three and onequarter revolutions clockwise?



ALGEBRA 2 A.C.T. BELLRINGER WEDNESDAY 2/19/14 & THURSDAY 2/20/14

SIMPLIFY THESE RADICALS:



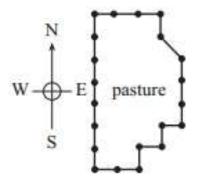
2. √

3.√

4. √

GEOMETRY BELLRINGER TUESDAY 2/18/14

The diagram below shows a pasture which is fenced in. All but 1 section of fence run straight north-south or east-west. Consecutive fence posts are 10 feet apart except for the 1 diagonal section. Which of the following statements best describes P, the perimeter of the pasture, in feet?



A.
$$P > 210$$

B.
$$P = 210$$

C.
$$P < 210$$

D.
$$P > 230$$

E.
$$P = 240$$

PRECALCULUS BELLRINGER WEDNESDAY 2/19/14 & THURSDAY 2/20/14

1.CONDENSE THESE LOGS:

$$6\log_2 12 - 36\log_2 5$$

$$5\log_9 c + \frac{\log_9 a}{3}$$

2. EXPAND THESE LOGS:

$$\log \frac{x^4}{v^{20}}$$

$$\log_{8} (y^{5}x^{15})$$

ALGEBRA 2 BELLRINGER FRIDAY 2/21/2014 & MONDAY 2/24/14

What are the zeros of the quadratic function $f(x) = x^2 + 3x + 1$?

What is AB?

$$A = \begin{bmatrix} -3 & 1 \\ 6 & 0 \\ 4 & 2 \\ 9 & 7 \end{bmatrix} \qquad B = \begin{bmatrix} 2 & 6 \\ 5 & 1 \end{bmatrix}$$

$$B = \begin{bmatrix} 2 & 6 \\ 5 & 1 \end{bmatrix}$$

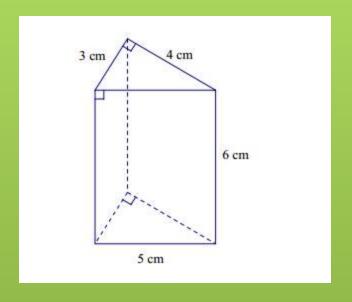
PRE CAL BELLRINGER FRIDAY 2/21/14 & MONDAY 2/24/14

1. Solve
$$2log_b(x) = log_b(4) + log_b(x - 1)$$

$$e^x = 80$$
 .

GEOMETRY SMUGI MONDAY 2/24/14

• FIND THE SURFACE AREA AND LATERAL AREA



PRE CAL BELLRINGER TUESDAY 2/25/14 & THURSDAY 2/27/14

1.
$$\left(\frac{x^2y^0 \cdot x^{\frac{1}{2}}y^0}{yx^3}\right)^{\frac{2}{3}}$$

2.
$$7 - 2e^x = 5$$

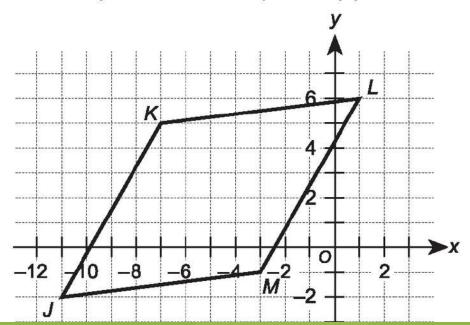
$$-2 + 2 \ln 3x = 17$$

GEOMETRY BELLRINGER WEDNESDAY 2/26/14

Quadrilateral ABCD has diagonals that are perpendicular. It also has exactly one pair of opposite angles with equal measure. What type of quadrilateral is it?

0 1.

Quadrilateral *JKLM* is graphed in the coordinate plane. Classify quadrilateral *JKLM* as specifically as possible. Show your work, and explain why your answer is correct.

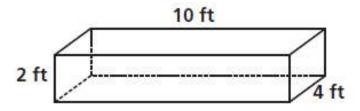


$$6) \left(\frac{u \cdot u^{\frac{7}{4}} \cdot v}{\frac{4}{u^{\frac{5}{3}}} \frac{5}{3}} \right)^{-3}$$

6)
$$\frac{v^2 u^{\frac{3}{4}}}{u^5}$$

GEOMETRY SMUGI 2/27/14

- 1. Find the surface area of a cylinder with a height of 8 inches and a radius of 6 inches to the nearest tenth.
- 2. Find the surface area of the prism.



ALGEBRA 2 BELLRINGER FRIDAY 2/28/14 & MONDAY 3/3/14

Solve this system of Inequalities by graphing:

$$y > |2x - 3|$$

$$y \le -4x + 6$$

ALGEBRA 2 SMUGI FRIDAY 2/28/14 & MONDAY 3/3/14

GRAPH AND SHADE THE SYSTEM OF INEQUALITIES BY HAND:

PRE CAL BELLRINGER FRIDAY 2/28/14 & THURSDAY 3/6/14

1. TRANSFORM ONE SIDE OF THE EQUATION TO EQUAL THE OTHER SIDE: $(1 + \cos \theta)(1 - \cos \theta) = \frac{2}{2}\theta$

2. Find two coterminal angles for
$$\theta = \frac{\pi}{6}$$

3. Find the arc length of an arc on a circle with radius, r, and intercepted by a central angle, θ .

Radius = 12, central angle = 50°

ALGEBRA 2 BELLRINGER FRIDAY 3/7/14 & MONDAY 3/10/14

SOLVE THESE SYSTEMS OF EQUATIONS USING SUBSTITUTION:

1.
$$y = -4x + 24$$

 $2x - 3y = -2$

2.
$$3y - 2x = 11$$

 $y + 2x = 9$

GEOMETRY BELLRINGER FRIDAY 3/14/14

- 1. FIND THE SURFACE AREA OF A CYLINDER WITH RADIUS 10 INCHES AND HEIGHT 3 INCHES
- 2. FIND THE LATERAL AREA AND SURFACE AREA OF A CUBE WITH SIDES THAT ARE 2 FEET EACH
- 3. FIND THE VOLUME OF A CONE WITH RADIUS OF 3 METERS AND HEIGHT OF 8 METERS
- (ROUND ALL DECIMALS TO THE NEAREST HUNDREDTH)

ALGEBRA 2 BELLRINGER THURS 3/13/14 & FRI 3/14/14

• 4.)
$$\frac{3-4}{2-5}$$

PRE CAL BELLRINGER THURS 3/13 & FRIDAY 3/14

o 1.) In
$$4x = 10$$

$$\circ$$
 2.) $10^{3-2} = 12$

• 3.) Transform the left side of the equation to the right side of the equation: $\frac{(\tan b + \cot b)}{\tan b} = \frac{2}{\tan b}$

ALGEBRA 2 BELLRINGER Wednesday 3/19/14 & Thursday 3/20/14

What are the domain and the range of these functions?

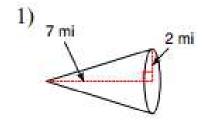
1.
$$y = + -$$

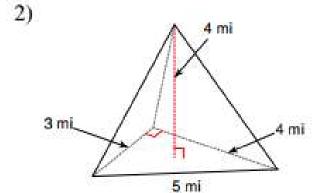
$$3. = \sqrt{-}$$

4. Factor this quadratic equation:

GEOMETRY BELLRINGER THURSDAY 3/20/14

Find the volume of each figure. Round your answers to the nearest tenth, if necessary.





GEOMETRY SMUGI THURSDAY 3/20/14

FIND THE VOLUME OF EACH

A square pyramid measuring 10 yd along each edge of the base with a height of 6 yd.

A cone with radius 4 m and a height of 12 m.

PRE CALCULUS BELLRINGER WEDNESDAY 3/19/14 & THURSDAY 3/20/14

Determine the quadrant in which each angle lies.

1. 77°

2. 240°

3. -9°

Find the values of θ in degrees (0° < θ < 90°) and radians (0 < θ < π /2) without the aid of a calculator.

$$4. \cos\theta = \frac{\sqrt{3}}{2}$$

5.
$$\tan \theta = \frac{\sqrt{3}}{3}$$

6.
$$\csc\theta = \sqrt{2}$$



PRE CALCULUS BELLRINGER FRIDAY 3/21/14 & MONDAY 3/24/14

Evaluate the trigonometric function of the quadrant angle.

1.
$$\cos\left(\frac{\pi}{2}\right)$$

$$2. \sin\left(\frac{3\pi}{2}\right)$$

Find two solutions of the equation. Give your answers in radians $(0 < \theta < 2\pi)$.

3.
$$\cos(\theta) = -\frac{1}{2}$$

4.
$$\sin(\theta) = \frac{\sqrt{3}}{2}$$

$$5. \cos(\theta) = 0$$

ALGEBRA 2 BELLRINGER Monday 4/7/14 & Tuesday 4/8/14

What are the domain and the range of these functions?

1.
$$y = + -$$

$$2. Y = \sqrt{-}$$

3. Factor this quadratic equation:

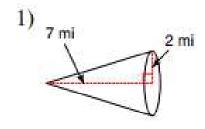
PRE CAL BELLRINGER MONDAY 4/7/14 & TUESDAY 4/8/14

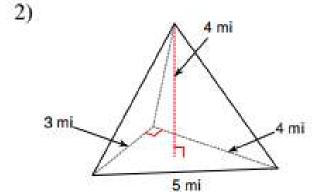
SOLVE FOR X:

(ROUND TO NEAREST HUNDREDTH)

GEOMETRY BELLRINGER TUESDAY 4/8/14

Find the volume of each figure. Round your answers to the nearest tenth, if necessary.





ALGEBRA 2 BELLRINGER Wednesday 4/9/14 & Thursday 4/10/14

What are the domain and the range of these functions?

1.
$$y = - + -$$

$$2. Y = \frac{1}{\sqrt{t}}$$

3. Factor this quadratic equation:

PRE CAL BELLRINGER Wednesday 4/9/14 & Thursday 4/10/14

What are the domain and the range of these functions?

1.
$$y = - + -$$

$$2. Y = \frac{1}{\sqrt{+}}$$

3. Factor this quadratic equation:

GEOMETRY BELLRINGER MONDAY 4/14/14

1. A PHOTO THAT IS 10 INCHES WIDE AND 11/3 INCHES HIGH IS ENLARGED TO A POSTER THAT IS 22 INCHES WIDE AND 121/15 INCHES HIGH. WHAT IS THE RATIO OF THE HEIGHT OF THE PHOTO TO THE HEIGHT OF THE POSTER?

2. SOLVE THIS PROPORTION:
$$\frac{10}{4} = \frac{3}{4}$$

3. SOLVE THIS PROPORTION:
$$\frac{110}{+10} = \frac{5}{}$$



ALGEBRA 2 BELLRINGER Tuesday 4/15/14 & Wednesday 4/16/14

What are the domain and the range of these functions?

1.
$$y = + -$$

$$2. Y = \sqrt{-}$$

3. Factor this quadratic equation:

PRECAL BELLRINGER Tuesday 4/15/14 & Wednesday 4/16/14

What are the domain and the range of these functions?

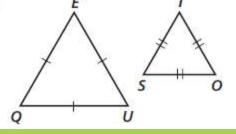
1.
$$y = + -$$

$$2. Y = \sqrt{-}$$

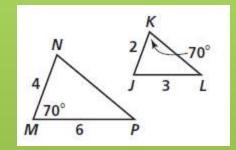
3. Factor this quadratic equation:

GEOMETRY BELLRINGER WEDNESDAY 4/16/14

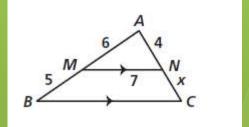
1. Are these pairs of triangles similar? If so, state which postulate allows you to conclude this and write a similarity statement



2. Same directions as #1:



3. SOLVE for x:



ALGEBRA 2 BELLRINGER Monday 4/21/14 & Tuesday 4/22/14

- 1.What is the domain and the range of this function? y = (-) + 2
- 2. Factor this quadratic equation:

3. Simplify √ - √

GEOMETRY BELLRINGER TUESDAY 4/22/14

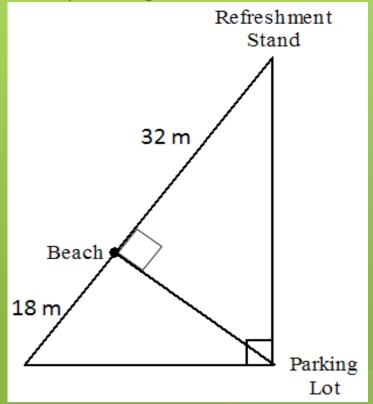
1.FIND THE EQUATION OF THE LINE THAT GOES THRU (-1, -2) AND HAS A SLOPE OF -3.

2. FIND THE EQUATION OF THE LINE THAT GOES THRU (1, 4) & (-5, 2)

GEOMETRY SMUGI TUESDAY 4/22/14

Joe wants to walk the shortest distance to get from the parking lot to the beach

- 1. How far is the spot on the beach from the parking lot?
- 2. How far will is the parking lot from the refreshment stand?



GEOMETRY BELLRINGER THURSDAY 4/24/14

1.FIND THE EQUATION OF THE LINE THAT GOES THRU (-3, -2) AND HAS A SLOPE OF -2.

2. FIND THE EQUATION OF THE LINE THAT GOES THRU (-1, 2) & (-5, 3)

GEOMETRY Bellringer Monday 4/28/14

1. FIND THE EQUATION OF THE LINE THAT GOES THRU (-2, 4) & (-1, -3)

2. THE LONGER LEG OF A 30°-60°-90° TRIANGLE IS 6. WHAT IS THE LENGTH OF THE HYPOTENUSE?

3. THE HYPOTENUSE OF A 30°-60°-90° TRIANGLE IS 30. WHAT IS THE LENGTH OF OF THE LONGER LEG?

4. WHAT IS THE LENGTH OF A DIAGONAL OF A SQUARE WITH SIDES OF LENGTH 4?

ALGEBRA 2 BELLRINGER Friday 4/25/14 & Monday 4/28/14

- 1. What is the domain and the range of this function? $y = \sqrt{+ - 2}$
- 2. What is the domain of this function:
- 3. Factor this quadratic equation:

$$y = + -30$$

y= + -30 4. Simplify √ - √

PRE CALCULUS BELLRINGER Friday 4/25/14 & Monday 4/28/14

- 1. What is the domain and the range of this function? $y = \sqrt{+ - 2}$
- 2. What is the domain of this function:
- 3. Factor this quadratic equation:

$$y = + -30$$

y= + -30 4. Simplify √ - √

GEOMETRY Bellringer WEDNESDAY 4/30/14

- 1. FIND THE EQUATION OF THE LINE THAT GOES THRU (-3, 2) & (1, -5)
- 2. THE LONGER LEG OF A 30°-60°-90° TRIANGLE IS 2. WHAT IS THE LENGTH OF THE HYPOTENUSE?
- 3. THE HYPOTENUSE OF A 30°-60°-90° TRIANGLE IS 10. WHAT IS THE LENGTH OF OF THE LONGER LEG?
- 4. WHAT IS THE LENGTH OF A DIAGONAL OF A SQUARE WITH SIDES OF LENGTH 6?

ALGEBRA 2 BELLRINGER Thursday 5/1/14 & Friday 5/2/14

1. Write this polynomial in standard form:

$$(+)(+)$$

2. Write this polynomial in factored form:

3. Correctly name the answers in #1 & #2

GEOMETRY Bellringer FRIDAY 5/2/14

- 1. FIND THE EQUATION OF THE LINE THAT GOES THRU (-2, 2) & (1, -2)
- 2. THE LONGER LEG OF A 30°-60°-90° TRIANGLE IS 4. WHAT IS THE LENGTH OF THE HYPOTENUSE?
- 3. THE HYPOTENUSE OF A 30°-60°-90° TRIANGLE IS 11. WHAT IS THE LENGTH OF OF THE LONGER LEG?
- 4. WHAT IS THE LENGTH OF A DIAGONAL OF A SQUARE WITH SIDES OF LENGTH 3?

ALGEBRA 2 BELLRINGER MONDAY 5/5/14 & TUESDAY 5/6/14

- 1. Write this polynomial in standard form:
- (+)()
- 2. Write this polynomial in factored form:
 - 4
- 3. Correctly name the answers in #1 & #2
- 4. + ÷ -

GEOMETRY BELLRINGER TUESDAY 5/6/14

- 1. FIND THE EQUATION OF THE LINE THAT GOES THRU (-1, 3) & (4, -6)
- 2. THE LONGER LEG OF A 30°-60°-90° TRIANGLE IS 13. WHAT IS THE LENGTH OF THE HYPOTENUSE?
- 3. THE HYPOTENUSE OF A 30°-60°-90° TRIANGLE IS 7. WHAT IS THE LENGTH OF OF THE LONGER LEG?
- 4. WHAT IS THE LENGTH OF A DIAGONAL OF A SQUARE WITH SIDES OF LENGTH 8?

ALGEBRA 2 BELLRINGER WEDNESDAY 5/7/14 & THURSDAY 5/8/14

1.

: -2, 0, 9

2. FACTOR: -

3. SOLVE: - =

4. SOLVE: - - =

5. + - ÷ -2

GEOMETRY BELLRINGER TUESDAY 5/8/14

- 1. FIND THE EQUATION OF THE LINE THAT GOES THRU (2, -3) & (-4, 6)
- 2. THE LONGER LEG OF A 30°-60°-90° TRIANGLE IS 6. WHAT IS THE LENGTH OF THE HYPOTENUSE?
- 3. THE HYPOTENUSE OF A 30°-60°-90° TRIANGLE IS 4. WHAT IS THE LENGTH OF OF THE LONGER LEG?
- 4. WHAT IS THE LENGTH OF A DIAGONAL OF A SQUARE WITH SIDES OF LENGTH 6?

ALGEBRA 2 BELLRINGER FRIDAY 5/9/14 & MONDAY 5/12/14

1.

: -4, 1, 3

2. SOLVE: - =

3. HOW MANY POSSIBLE RATIONAL ROOTS IN THIS POLYOMIAL: + -

4. FIND THE ACTUAL RATIONAL ROOTS FOR THE EQUATION IN #3

ALGEBRA 2 BELLRINGER TUESDAY 5/13/14 & WEDNESDAY 5/14/14

• FINISH #S 6, 7 & 12 ON HOMEWORK USING CALCULATOR

PRE CAL BELLRINGER FRIDAY 5/9/14 & MONDAY 5/12/14

1. FIND THE DOMAIN & RANGE:

2. FIND THE DOMAIN & RANGE:

$$Y = 3 + \sqrt{t}$$

GEOMETRY BELLRINGER MONDAY 5/12/14

- 1. FIND THE EQUATION OF THE LINE THAT GOES THRU (-2, 1) & (-1, 5)
- 2. THE LONGER LEG OF A 30°-60°-90° TRIANGLE IS 4. WHAT IS THE LENGTH OF THE HYPOTENUSE?
- 3. THE HYPOTENUSE OF A 30°-60°-90° TRIANGLE IS 2. WHAT IS THE LENGTH OF OF THE LONGER LEG?
- 4. WHAT IS THE LENGTH OF A DIAGONAL OF A SQUARE WITH SIDES OF LENGTH 3?

GEOMETRY BELLRINGER WEDNESDAY 5/14/14

- 1. What is the slope of this line? y = -x 5
- 2. What is the x-intercept of this line?
- 3. What is the y-intercept of this line
- 4. What is the equation of the line that is parallel to the line in #1 and goes thru the point (3, 2)?
- 5. What is the slope of the line that is perpendicular to the line in #1 and goes thru the point (5, 0)?

PRE CAL BELLRINGER TUESDAY 5/13/14 & WEDNESDAY 5/14/14

5/14/14 1. FIND THE DIFFERENCE QUOTIENT:

(hint: PG 23 IN BOOK)

$$() = + x -$$

2. Find the relative min & the max for

(HINT: PG 33 IN BOOK) f(

$$f(x) = - -$$

3. Write the equation of the line perpendicular to this line y = -2x - 3 and goes thru the point (-4, -2)

(HINT: REMEMBER WHAT YOU LEARNED IN 8TH GRADE!!!)