PRE-CALCULUS BELLRINGER WEDNESDAY 8/13/14 & THURSDAY 8/14/14

1. Write the equation of the line that passes through the points (0,-8) & (1,2)

2. Write the equation of the line that passes through the points (-1, 10) & (4,7)

PRE-CALCULUS BELLRINGER FRIDAY 8/15/14

1. Find $f(-x)$ for $f(x) = x^2 + 3$.

2. Find the domain of the function $g(x) = \dfrac{4}{x-4}$.

3. Evaluate the function when $x = -7$.
$$f(x) = \begin{cases} x+2, & x > -5 \\ -4, & x \le -5 \end{cases}$$

4. A company produces a product for which the variable cost is $1.35 per unit and the fixed costs are $678. The total cost C for producing x units of the product can be represented by the function $C(x) = 1.35x + 678$. Find the total cost when 1000 units are produced.

ALGEBRA 2 BELLRINGER FRIDAY 8/15/14 & MONDAY 8/18/14

FIND THE NEXT 2 NUMBERS OF EACH PATTERN:

1. 1, 3 ,5, 7, 9, 11,...

2. -2, -4, -6, -8, -10, -12,...

3. 0.2, 1, 5, 25, 125, 625, ...

4. 50,45,40,35,30,25,...

5. 512, 256, 128, 64, 32, 16, ...

Find the 17th term of each sequence:

1.) $a_1 = 18$, d = 5

2.) $a_1 = 18$, d = -3

PRE-CALCULUS BELLRINGER TUESDAY 8/19/14

1. Find $f(-x)$ for $f(x) = x^3 + 3x$

2. Find $f(-x)$ for $f(x) = -2x^2 - 10x$

3. What is the domain of this function?

$$F(x) = \frac{\underline{}}{\sqrt{-}}$$

ALGEBRA 2 BELLRINGER
TUESDAY 8/19/14
& WEDNESDAY 8/20/14

Find the next term in each sequence.

1. $1, 2, 4, 8, \ldots$

2. $336, 168, 84, 42, \ldots$

3. $0.1, 1, 10, 100, \ldots$

4. $900, 300, 100, \ldots$

PRECALCULUS BELLRINGER THURSDAY 8/21/14

1.) GRAPH THE FOLLOWING PIECEWISE FUNCTION:

$$y = \begin{cases} x^2 - 2, & x < 1 \\ -2x + 4, & x \geq 1 \end{cases}$$

Find the 10th term of each geometric sequence:

1.) $a_1 = 18$, d = 5

2.) $a_1 = 18$, d = -3

3.Find the missing term of this geometric sequence: 12.5, _____ , 50

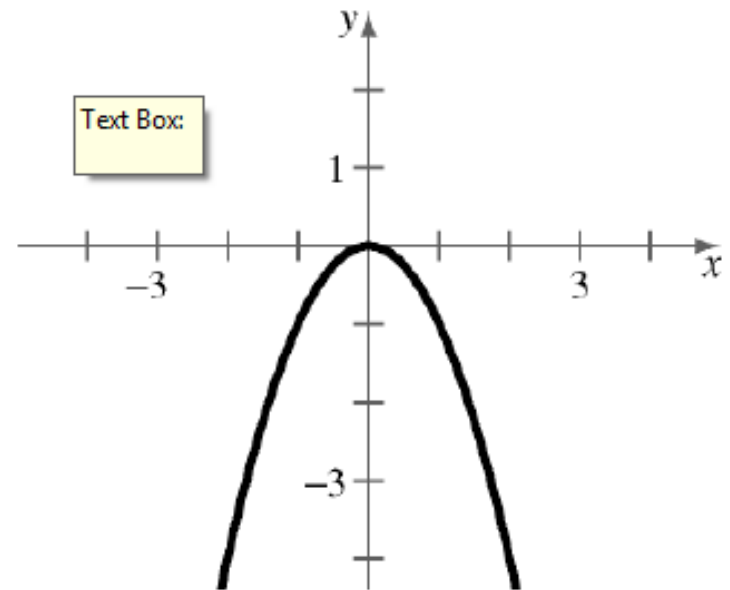# ALGEBRA 2 BELLRINGER THURSDAY 8/21/14 & FRIDAY 8/22/14

1. IDENTIFY THIS SEQUENCE AS GEOMETRIC, ARITHMETIC OR NEITHER: 8, -4, 2, -1, 0.5, …

2. FIND THE 15TH TERM OF THE SEQUENCE IN PROBLEM #1

PRECALCULUS BELLRINGER
MONDAY 8/25/14

1. Determine the intervals over which the function $f(x) = -x^2$ is increasing, decreasing, or constant.

Text Box

2. Determine whether the function $g(x) = \dfrac{1}{x^2}$ is odd, even, or neither.

ALGEBRA 2 BELLRINGER MONDAY 8/25/14 & TUESDAY 8/26/14

Write the related series for each finite sequence. Then evaluate each series:

1. -5, -15, -25, -35, -45

2. -3, -6, -9, ..., - 21

ALGEBRA 2 BELLRINGER WEDNESDAY 8/27/14 & THURSDAY 8/28/14

Consider the sequence 16, −8, 4, −2, 1, ...
a.   Describe the pattern formed in the sequence.
b.   Find the next three terms.

PRE CAL BELLRINGER WEDNESDAY 8/27/14

1. **Graph these functions by using an by hand on the same graph. Label each one by its letter:**

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

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

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

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

PRE-CALCULUS BELLRINGER FRIDAY 8/29/2014

Given that $f(x) = 4x^2 - 6x$ and $g(x) = \frac{1}{2}x$, find the composition.

1. $f \circ g$

2. $g \circ f$

3. Solve $x = \dfrac{2y + 3}{y - 1}$ for y.

ALGEBRA 2
8/29/2014

○ 1.YOU WILL MAKE $58,000 A YEAR FOR THE FIRST YEAR OF YOUR CAREER AND YOU WILL RECEIVE A 4% RAISE EVERY YEAR. WHAT WILL YOUR SALARY BE IN YOUR 15TH YEAR OF WORKING THERE?

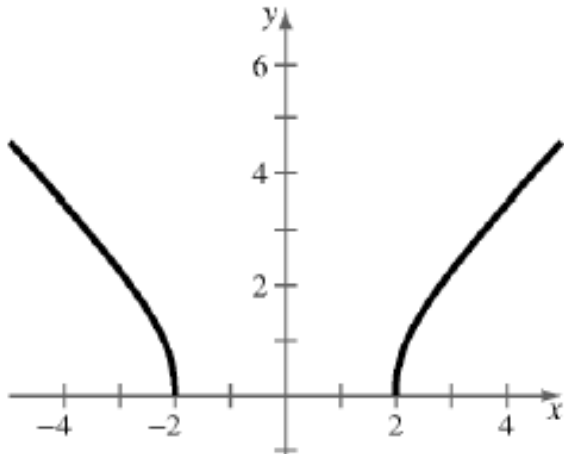○ 2. GIVEN AN ARITHMETIC SEQUENCE IN WHICH a_1 = 3, a_5 = 15 a_n = 69, and d = 3, FIND n

Find the inverse of the function.

1. $f(x) = \dfrac{1}{3}x - 2$

2. $f(x) = \dfrac{x+4}{x-6}$

3. Is the function shown in the graph a one-to-one function? Does it have an inverse function? Explain.

ALGEBRA 2 BELLRINGER WEDNESDAY 9/3/14 & THURSDAY 9/4/14

1. GIVEN A SEQUENCE DETERMINED BY $a_n = 2n + 3$

- A. what is the 100th term of this sequence

- B. What is an expression in sigma notation for the sum of the first 500 terms of this sequence

- C. What is the sum of the first 500 terms of this sequence?

- D. What is the sum of the 501st through 1000th terms of this sequence?

2. Determine if the following geometric series converges or diverges:

$$\sum_{n=1}^{\infty} \frac{1}{2^n}$$

3. Find the approximate sum for this series if possible

ALGEBRA 2 BELLRINGER 9/8/14

○ **STATE WHETHER EACH INEQUALITY IS TRUE OR FALSE:**

○ **1.) $5 < 12$ 2.) $5 < -12$ 3.) $5 \geq 12$**

○ **4.) $5 \leq 12$ 5.) $5 \leq 5$ 6.) $5 \geq 5$**

○ **SOLVE EACH EQUATION**

○ **7.) $3X + 3 = 2X - 3$ 8.) $5X = 9(X - 8) + 12$**

ALGEBRA 2 SMUGI 9/4/14

GIVEN A SEQUENCE DETERMINED BY $a_n = 5n - 6$

- A. what is the 134th term of this sequence

- B. What is an expression in sigma notation for the sum of the first 766 terms of this sequence

- C. What is the sum of the first 256 terms of this sequence?

- D. What is the sum of the 401st through 999th terms of this sequence?

ALGEBRA 2 BELLRINGER
TUESDAY 9/9/14
& WEDNESDAY 9/10/14

- **SOLVE EACH EQUATION:**
- **1.) $5(X - 6) = 40$**   **2.) $5B = 2(3B - 8)$**

- **SOLVE EACH INEQUALITY:**
- **3.) $4X + 8 > 20$**   **4.) $4(X - 1) < 3X + 5$**

Factor the expression completely.

1. $x^4 - 3x^2 - 4$

2. $2y^4 + 6y^3 + 2y^2 + 6y$

Find the x-intercepts of the function.

3. $f(x) = \dfrac{x-3}{x+8}$

4. $f(x) = 2x^2 - 7x + 6$

Factor the expression completely.

1. $x^2 - 5x - 24$

2. $3x^3 + 6x^2 - 4x - 8$

3. Simplify $\dfrac{4n^5 - 12n^3 + 6n^2}{2n^2}$.

4. Multiply $(2x - 1)(3x^2 - x + 5)$.

ALGEBRA 2 SMUGI 9/10/14

- **BANANAS COST TWENTY-FIVE CENTS PER POUND.**

I WANT TO SPEND BETWEEN $2.50 & $3 ON BANANAS. BETWEEN WHAT AMOUNT OF BANANAS CAN I PURCHASE?

ALGEBRA 2 BELLRINGER 9/11/14

○ **1. $|Z - 1| = 7Z - 13$**

○ **2. $|K - 3| \leq 19$**

Factor the expression completely.

1. $x^2 - 5x - 24$

2. $3x^3 + 6x^2 - 4x - 8$

3. Simplify $\dfrac{4n^5 - 12n^3 + 6n^2}{2n^2}$.

4. Multiply $(2x - 1)(3x^2 - x + 5)$.

ALGEBRA 2 BELLRINGER WEDNESDAY 9/17/14 & THURSDAY 9/18/14

1. Solve and graph

$$2 < 5 - |x - 17|$$

2. Solve and check for extraneous solutions

$$|3x + 5| - 2x = 3x + 4$$

Divide.

1. $(2x^5 - 3x^4 + 9x^2 - 7)$ by $(2x + 1)$

2. $\dfrac{3x^3 - 12x^2 + 5x - 18}{x - 4}$

ALGEBRA 2 BELLRINGER 9/22/14

GRAPH:

1. Y = 2X + 4

2. Y = 1/3 X – 2

3. Y = |X - 2|

PRE CAL BELLRINGER 9/23/14

STATE THE POSSIBLE NUMBER OF RATIONAL ROOTS, POSSIBLE POSITIVE AND NEGATIVE ROOTS (DESCARTES) AND THEN FIND ALL ROOTS:

$F(X) = {}^{3} - {}^{2} - 24 + 54$

ALGEBRA 2 BELLRINGER TUESDAY 9/23/14 & WEDNESDAY 9/24/14

1. **GRAPH AND SHADE APPROPRIATELY:**

   Y > 2X + 3

   Y ≤ -(1/2) X − 2

2. **GRAPH AND SHADE APPROPRIATELY:**

   Y > 3X − 1

   Y ≥ |X + 2|

PRE CALCULUS BELLRINGER WEDNESDAY 10/1/14

1. $(9 - 6i) - (4 - i)$

2. $(2 + 3i)(3 - 2i)$

3. Simplify and write in standard form: $\dfrac{2i}{i^4}$

4. Write the quotient $\dfrac{3 - i}{1 - 3i}$ in standard form.

5. Plot the following in the complex plane: $-2, 3 - i, -i, 1 + i$.

ALGEBRA 2 BELLRINGER WEDNESDAY 10/1/14 & THURSDAY 10/2/14

Find each sum.

1. $\begin{bmatrix} 3 & 5 \\ 2 & 8 \end{bmatrix} + \begin{bmatrix} 3 & 5 \\ 2 & 8 \end{bmatrix} + \begin{bmatrix} 3 & 5 \\ 2 & 8 \end{bmatrix}$

2. $\begin{bmatrix} -4 \\ 7 \end{bmatrix} + \begin{bmatrix} -4 \\ 7 \end{bmatrix} + \begin{bmatrix} -4 \\ 7 \end{bmatrix} + \begin{bmatrix} -4 \\ 7 \end{bmatrix} + \begin{bmatrix} -4 \\ 7 \end{bmatrix}$

3. $\begin{bmatrix} -1 & 3 & 4 \\ 0 & -2 & -5 \end{bmatrix} + \begin{bmatrix} -1 & 3 & 4 \\ 0 & -2 & -5 \end{bmatrix} + \begin{bmatrix} -1 & 3 & 4 \\ 0 & -2 & -5 \end{bmatrix} + \begin{bmatrix} -1 & 3 & 4 \\ 0 & -2 & -5 \end{bmatrix}$

PRE CALCULUS BELLRINGER FRIDAY 10/3/14

Find the horizontal and vertical asymptotes and holes in the graph of the function.

1. $f(x) = \dfrac{x^2 - 4x + 3}{-x^2 + 2x + 3}$

2. $g(x) = \dfrac{2x^2 - x - 10}{x^2 + 2x - 8}$

Divide.

3. $f(x) = \dfrac{x^2 - 1}{x}$

4. $f(x) = \dfrac{4x^2 + 2x}{x - 2}$

ALGEBRA 2 BELLRINGER FRIDAY 10/3/14 & MONDAY 10/6/14

ind the inverse of each matrix, if it exists.

20. $\begin{bmatrix} -2 & 1 & -1 \\ 2 & 0 & 4 \\ 0 & 2 & 5 \end{bmatrix}$
21. $\begin{bmatrix} 2 & 0 & -1 \\ -1 & -1 & 1 \\ 3 & 2 & 0 \end{bmatrix}$
22. $\begin{bmatrix} 0 & 0 & 2 \\ 1 & 4 & -2 \\ 3 & -2 & 1 \end{bmatrix}$
23. $\begin{bmatrix} 1 & 2 & 6 \\ 1 & -1 & 0 \\ 1 & 0 & 2 \end{bmatrix}$

EVALUATE THE DETERMINANT OF EACH MATRIX

a. $\begin{bmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \end{bmatrix}$
b. $\begin{bmatrix} -1 & -2 & -3 \\ -3 & -2 & -1 \\ -1 & -2 & -3 \end{bmatrix}$
c. $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 1 & 2 & 3 \end{bmatrix}$
d. $\begin{bmatrix} -1 & 2 & -3 \\ 2 & -3 & -1 \\ -1 & 2 & -3 \end{bmatrix}$

ALGEBRA 2 BELLRINGER TUESDAY 10/7/14 & WEDNESDAY 10/8/14

GET OUT YOUR HOMEWORK (PG 371 #1-15 ALL) AND ENTER THEM IN THE CALCULATORS. I WILL TAKE THEM UP IN 15 MINUTES.

PRE CAL BELLRINGER 10/9/14

USE THE BINOMIAL THEOREM TO EXPAND $(^2 + 3)^6$

ALGEBRA 2 BELLRINGER THURSDAY 10/9/14 & FRIDAY 10/10/14

MATRIX A REPRESENTS THE AMOUNT OF CLOTHES I PURCHASED AT THE MALL ON 3 DIFFERENT TRIPS. MATRIX B REPRESENTS THE PRICE OF EACH ITEM OF CLOTHING:

$$A = \begin{matrix} 1 & 2 & 3 \\ 0 & 2 & 2 \\ 3 & 3 & 1 \end{matrix}$$

$$B = \begin{matrix} 15 & 20 \\ 25 & 30 \\ 35 & 45 \end{matrix}$$

FIND THE AMOUNT THAT I SPENT ON EACH TRIP

ketch the graphs of $y = x^5$ and $f(x) = x^5 - 1$ on the same set of axes.

escribe the right-hand and left-hand behavior of the graph of $f(x) = 3 - 2x^4$

ind all the real zeros of the function $f(x) = 2x^4 - 5x^3 + 2x^2$. Then determine
ultiplicity of each zero.

ketch the graph of $f(x) = x^3 - 4x$.

SMUGI 10/16/14

1. WRITE THE EQUATION OF THE CIRCLE WITH CENTER (0,-2) AND RADIUS OF 8 IN STANDARD FORM

2. WRITE THE EQUATION OF A PARABOLA WITH $a = 2$

   AND A VERTEX OF (-1, 2) AND IS UPSIDE DOWN

ALGEBRA 2 BELLRINGER 10/29/14

1. WRITE THE EQUATION OF THE CIRCLE WITH CENTER (-1,4) AND RADIUS OF 11 IN STANDARD FORM

2. WRITE THE EQUATION OF A PARABOLA WITH $a = 3$ AND A VERTEX OF (4, -2) AND IS UPSIDE DOWN

ALGEBRA 2 BELLRINGER FRIDAY 10/31/14 & MONDAY 11/3/14

1. WRITE THIS EQUATION OF THIS CIRCLE IN STANDARD FORM IN ORDER TO DETERMINE THE CENTER AND RADIUS. THEN GRAPH THE CIRCLE.

$$+ \quad - \quad - \quad + \quad =$$

2. DETERMINE THE CENTER OF THIS ELLIPSE:

$$\frac{(\quad + \quad)}{} + \frac{(\quad - \quad))}{} = 1$$

3. DETERMINE THE CENTER OF THIS HYPERBOLA:

$$\frac{(\quad + \quad)}{} - \frac{(\quad - \quad)}{} = 1$$

PRE CAL BELLRINGER 10/31/14
HAPPY HALLOWEEN!!!!!

WARM-UP EXERCISES

Evaluate the expression.

1. $\log_7 49$

2. $\log 0.001$

3. $\ln \dfrac{1}{e^2}$

4. $\log_{16} 2$

Simplify the expression.

5. $3^2(3^x)$

6. $\dfrac{5^x}{5^y}$

ALGEBRA 2 BELLRINGER WEDNESDAY 11/5/14 & THURSDAY 11/6/14

1. SIMPLIFY USING EXPONENT RULES:

$$\sqrt[6]{4^5}$$

2. SIMPLIFY USING EXPONENT RULES

$$\frac{m^0 \cdot m^{-\frac{1}{3}} n^{-1}}{\left(n^{-\frac{5}{4}}\right)^2}$$

Condense the expression $\frac{1}{2} \log x - \log (x+1)$ to the logarithm of a single quantity.

3. .

Expand the expression $\ln \frac{2x}{y^3}$.

4.

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

1. IF YOU MOVED A CIRCLE WITH THIS EQUATION: *(+)* *+ (–) =* **UP FOUR UNITS AND LEFT 3 UNITS, WHAT WOULD THE EQUATION OF THIS NEW CIRCLE BE?**

    (HINT: GRAPH THIS CIRCLE FIRST, THEN MOVE THE CENTER)

2. DESCRIBE WHAT TRANSFORMATIONS TOOK PLACE FROM THE EQUATION OF THIS CONIC SECTION:
f(X) = **TO THIS ONE f(X) =** *(–) +*

    HINT: WHAT IS THE VERTEX OF THE 1ST ONE? AND THE 2ND?

3. USE THE INFORMATION PROVIDED TO WRITE THE VERTEX FORM OF THIS PARABOLA: Y = – – + HINT: X= $\dfrac{-}{}$

4. NOW GRAPH THE PARABOLA FROM #3

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

1. IF YOU MOVED A CIRCLE WITH THIS EQUATION: *(–)* *+ (+) =* DOWN 5 UNITS AND RIGHT 2 UNITS, WHAT WOULD THE EQUATION OF THIS NEW CIRCLE BE?

2. DESCRIBE WHAT TRANSFORMATIONS TOOK PLACE FROM THE EQUATION OF THIS CONIC SECTION: f(X) = *(–)* TO THIS ONE f(X) = -*(+)* +

3. USE THE INFORMATION PROVIDED TO WRITE THE VERTEX FORM OF THIS PARABOLA: Y = – + +

4. NOW GRAPH THE PARABOLA FROM #3

PRECALCULUS BELLRINGER TUESDAY 11/11/14

1. Use the properties of logs to expand this expression: $\ln$

$$\sqrt{\cdot}$$

2. Use the properties of logs to condense this expression:

   2[lnx – ln(x + 1) – ln(x – 1)]

3. Use the properties of exponents to simplify this expression:

$$\left(\frac{x^{-\frac{5}{3}}y^{-1}\cdot yx^{-\frac{5}{3}}}{x^{\frac{5}{3}}y^{\frac{7}{4}}}\right)^{-1}$$

PRECALCULUS BELLRINGER THURSDAY 11/13/14

1. USE THE PROPERTIES OF LOGARITHMS TO EXPAND

$$\frac{\cdot \ \sqrt{}}{\rule{3cm}{0.4pt}}$$

THIS EXPRESSION:

2. USE THE PROPERTIES OF LOGARITHMS TO CONDENSE THIS TO A SINGLE LOGARITHM:

$$+ \ (\qquad - \qquad \sqrt{} \ )$$

3. USE THE PROPERTIES OF EXPONENTS TO SIMPLIFY:

$$\frac{(ba^3)^2}{a^0 b^{\frac{3}{2}} \cdot a^{-\frac{1}{2}} b^{-\frac{3}{2}}}$$

ALGEBRA 2 BELLRINGER THURSDAY 11/13/14 & FRIDAY 11/14/14

1. IF YOU MOVED A CIRCLE WITH THIS EQUATION: $(\quad + \quad)$ $+ (\quad + \quad) = \quad$ **DOWN 10 UNITS AND RIGHT 6 UNITS, WHAT WOULD THE EQUATION OF THIS NEW CIRCLE BE?**

2. DESCRIBE WHAT TRANSFORMATIONS TOOK PLACE FROM THE EQUATION OF THIS CONIC SECTION:
$f(X) = (\quad + \quad) + \quad$ **TO THIS ONE** $f(X) = -(\quad - \quad) + \quad$

(hint: what is the vertex of the 1st? And the 2nd?)

3. WHICH TRANSFORMATIONS CAN BE PERFORMED ON THE GRAPH OF $f(X) = \quad$ **THAT RESULT IN THE GRAPH OF**
$f'(X) = \quad - \quad - \quad -$

4. WHAT ARE THE DOMAIN AND RANGE OF BOTH PARABOLAS IN #2?

5. WHAT ARE THE DOMAIN AND RANGE OF BOTH PARABOLAS IN #3?

ALGEBRA 2 BELLRINGER THURSDAY 11/13/14 & FRIDAY 11/14/14 TAKE 2

1. IF YOU MOVED A CIRCLE WITH THIS EQUATION: $(\quad - \quad)$ $+ (\quad + \quad) = \quad$ UP 7 UNITS AND LEFT 2 UNITS, WHAT WOULD THE EQUATION OF THIS NEW CIRCLE BE?

2. DESCRIBE WHAT TRANSFORMATIONS TOOK PLACE FROM THE EQUATION OF THIS CONIC SECTION:
   $f(X) = -(\quad - \quad) - \quad$ TO THIS ONE $f(X) = (\quad + \quad) + 1$

3. WHICH TRANSFORMATIONS CAN BE PERFORMED ON THE GRAPH OF $f(X) = \quad$ THAT RESULT IN THE GRAPH OF
   $f'(X) = \quad - \quad - \quad$

4. WHAT ARE THE DOMAIN AND RANGE OF BOTH PARABOLAS IN #2?

5. WHAT ARE THE DOMAIN AND RANGE OF BOTH PARABOLAS IN #3?

ALGEBRA 2 BELLRINGER MONDAY 11/17/14 & WEDNESDAY 11/19/14

1. **IF YOU MOVED A CIRCLE WITH THIS EQUATION:** $(\; - \;)$ $+ \; (\; + \;) \; = $ **UP 3 UNITS AND RIGHT 10 UNITS, WHAT WOULD THE EQUATION OF THIS NEW CIRCLE BE?**

2. **DESCRIBE WHAT TRANSFORMATIONS TOOK PLACE FROM THE EQUATION OF THIS CONIC SECTION:** $f(X) = - \; - $ **TO THIS ONE** $f(X) = (\; + \;) \; + 11$

3. **WHICH TRANSFORMATIONS CAN BE PERFORMED ON THE GRAPH OF** $f(X) = (\; - \;) \; + $ **THAT RESULT IN THE GRAPH OF** $f'(X) = - \; - \; - $

4. **WHAT ARE THE DOMAIN AND RANGE OF THIS PARABOLA?** $f(X) = (\; - \;) \; + 1$

PRECALCULUS BELLRINGER THURSDAY 11/20/14

1. In a research experiment, a population of fruit flies is increasing according to the law of exponential growth. $y =$ After 2 days there are 100 flies, and after 4 days there are 300 flies. How many flies will there be after 5 days?

(hint: let y be the number of flies at time, x. Solve the 1st one – then plug into the second one to solve for a)

2. USE THE PROPERTIES OF EXPONENTS TO SIMPLIFY:

$$\frac{u^2 v^{\frac{1}{2}} \cdot u^0 v^{\frac{7}{4}}}{\left(u^{-2}\right)^{\frac{1}{3}}}$$

$$F(X) = 2X + 1$$

$$G(X) = 3X - 2$$

1 FIND (F + G)(X)

2 FIND (F − G)(X)

3 FIND (F*G)(X)

4 FIND $\left(-\right)(\ \ )$

5 FIND (F o G)(X)

6 FIND (G o F)(X)

$$F(X) = X - 6$$

$$G(X) = 2X + 5$$

1 FIND (F + G)(X)

2 FIND (F − G)(X)

3 FIND (F*G)(X)

4 FIND $\left(-\right)(\quad)$

5 FIND (F o G)(X)

6 FIND (G o F)(X)

ALGEBRA 2 BELLRINGER WEDNESDAY 12/3/14 & THURSDAY 12/4/14

$$F(X) = 2X + 1$$

$$G(X) = X - 2$$

1 FIND (F + G)(X)

2 FIND (F – G)(X)

3 FIND (F*G)(X)

4 FIND $\left(- \right)(\ )$

5 FIND (F o G)(X)

6 FIND (G o F)(-2)

ALGEBRA 2 BELLRINGER FRIDAY 12/5/14 & MONDAY 12/8/14

1. DETERMINE THE DOMAIN AND RANGE: $= (+) +$
2. WHAT IS THE VERTEX OF THE EQUATION IN #1?
3. WHAT SHAPE IS THE GRAPH OF THE EQUATION IN #1?
4. IF YOU REFLECTED THIS EQUATION ACROSS THE Y-AXIS, WHAT WOULD THE VERTEX BE?

ALGEBRA 2 BELLRINGER TUESDAY 12/9/14 & WEDNESDAY 12/10/14

- WHAT ARE THE CENTER AND THE RADIUS OF THIS CIRCLE?

$$x^2 + y^2 - 22x + 10y + 130 = 0$$