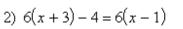
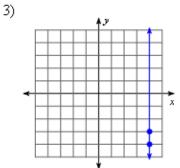
Assignment due Friday!!

Solve each equation.

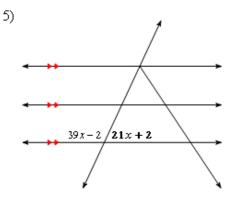
$$1) -\frac{5}{4}\nu + 3\nu = \frac{7}{8}$$



Find the slope given the following information.

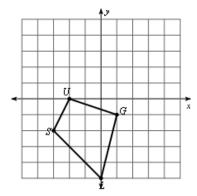


Identify the type of angle pairs and solve for x.

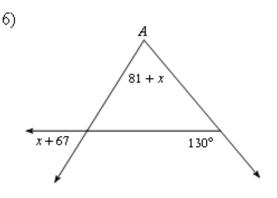


Graph the new image and list the new coordinates.

7) rotation 180° about the origin

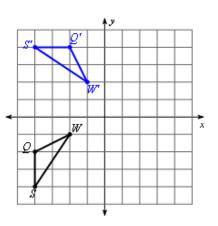


Find the measure of angle A.



Write a rule to describe each transformation.

8)



Name_____

4) (6, 10), (20, -11)

Date____ Period____

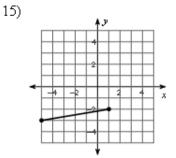
Find the missing side of each right triangle. Round to the nearest tenth if necessary.

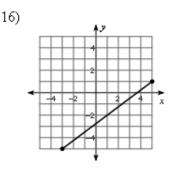


Find the volume of each figure in terms of pi and numerically.

- A cylinder with a radius of 9 cm and a height of 8 cm.
- A cylinder with a diameter of 12 ft and a height of 9 ft.
- A cone with diameter 20 cm and a height of 20 cm.
- 14) A sphere with a diameter of 4 in.

Find the distance between each pair of points.





Find each square root. Round to the nearest tenth if necessary.

17) √140 18) √25

Find the best solution to the following problems.

19)

20)

If the area of a square is 100 square centimeters, what is the length of the diagonal?

 $x^3 = 729$

Simplify each exponential expression.

21)
$$\frac{3^{-4}}{(3^2)^{-2} \cdot 3^4}$$
 22) $\left(\frac{4^4 \cdot 4^{-1}}{4^4}\right)^4$

Write each number in scientific notation.

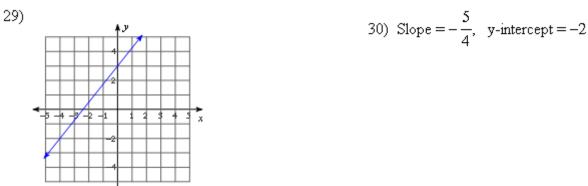
23) 0.0056 24) 31000

Write each number in standard notation.

25) 7.9 × 10² 26) 5.4×10^{-2}

Write the slope-intercept form (y = mx + b) of the equation of the line using the following information.

28) through: (-4, 0) and (-1, -5)27) through: (3, 1) and (-1, 4)



Simplify. Write each answer in scientific notation.

31)
$$(8.4 \times 10^{-3})(5.5 \times 10^{-3})$$

32) $\frac{7.68 \cdot 10^2}{6.4 \cdot 10^6}$

Determine if the following are linear or nonlinear. If linear, find the slope and y-intercept, then write the linear equation.

y

0

x

			y	4	
				\vdash	
-		1	Ó		x
	ł	┣.	⊢	-	

35) An airplane 30,000 feet above the ground begins descending at the rate of 2000 feet per minute. Assume the plane continues at the same rate of descent. The plane's height and minutes above the ground are related to each other.

Id	entify the variables	in this situati	on: x=	y=
W	hat is the given info	rmation in th	is problem (find all that apply)?	
y-1	intercept:	slope:	Equation:	
36) <u>Use yo</u>	our equation from #.	3 <u>5</u> to find the a	altitude of the plane after 5 minutes.	
thereat	•	-	n present, and you deposit it in a sav no interest is earned. The amount in	vings account. Then each week the account is a function of the number
Id	entify the variables	in this situation	on: x=	y=
W	hat is the given info	rmation in th	is problem (find all that apply)?	
y-i	intercept:	slope:	Equation:	

38) Use your equation from #37 to find when you will have \$310 in the account.

39)	Abbi had some candy to give to her
	five children. She first took seven pieces
	for herself and then evenly divided the rest
	among her children. Each child received
	five pieces. With how many pieces did
	she start?

40) On Tuesday Molly bought six boxes. On Wednesday half of all the boxes that she had were destroyed. On Thursday there were only 15 left. How many did she have on Monday?