## Algebra Review \#28 SHOW HOW YOU SOLVED EACH PROBLEM

1. Which expression correctly represents \$3 less than twice the cost, c ?

A $3-2 \mathrm{C}$
B 3-2+c
C 2c-3
D $\frac{c}{2}-3$
2.

What is the value of $\frac{m n}{r^{2}}$
if $m=7, n=18$, and $r=6$ ?
a. $\quad 3.5$
b. $\quad 10.5$
c. 21
d. 63
3. What is the slope of the equation?

$$
-2 y=x-1
$$

NAME $\qquad$
4. Which is an equation for the line that contains the points $(-3,5)$ and $(1,-3)$ ?
a. $y=-x+2$
b. $y=-2 x-1$
c. $y=-\frac{1}{2} x-\frac{3}{2}$
d. $y=\frac{3}{2} x-\frac{9}{2}$
5. Which set of ordered pairs is a function?
a. $\{(-6,12),(1,8),(1,13)\}$
b. $\{(0,2),(0,4),(4,0)\}$
c. $\{(7,-1),(7,-2),(7,-3)\}$
d. $\{(1,3),(2,4),(3,5)\}$
6. Draw a graph of the equation $y+1=3 x$

Slope: $\qquad$

7. What is the value of the following in simplest form?

$$
9 \sqrt{18}-2 \sqrt{50}
$$

8. Graph the following system of inequalities:

$$
\begin{gathered}
2 x-y \geq 6 \\
x>2
\end{gathered}
$$



Is $(3,0)$ a solution to this system? YES or NO Is $(2,-3)$ a solution to this system? YES or NO
9. If $y$ varies directly with $x$ and the constant of variation is 9 , which equation represents this relationship?

A $y=9 x$
B $\mathrm{y}=\frac{9}{x}$
C $y=\frac{x}{9}$
D $y=-9 x$
10. Solve this system of equations:

$$
\left\{\begin{array}{l}
y=4 x+2 \\
y=x-1
\end{array}\right.
$$

A $(-1,2)$
B $(-1,-2)$
C $(1,-2)$
D $(1,2)$

