Algebra Review \#19 SHOW HOW YOU
SOLVED EACH PROBLEM SOLVED EACH PROBLEM

1. Which algebraic expression could be represented by the statement below?

Three times the square of a number

A $3 x^{2}$
B $3+x^{2}$
C $(3 x)^{2}$
D $2 x^{2}$
2. If $f(x)=2 x^{3}-x^{2}+1$, find $f(-3)$.
3. Tell whether the equation has one has one, none, or infinite solutions:

$$
-x+10+3=-(x-7)
$$

4. Which of the following is the slope formula?
$\mathrm{A} y=\frac{y_{1}-y_{2}}{x_{2}-x_{1}}$
B $y=\frac{y_{2}-y_{1}}{x_{1}-x_{2}}$
C $y=\frac{y_{2}-x_{2}}{y_{1}-x_{1}}$
D $y=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$
5. Solve the following equation:

$$
5 x-1=\frac{9 x+7}{2}
$$

6. Observe the following graph.


Is the following graph a function? Why or why not?

What is the domain?
What is the range?
What is the slope?
7. What is the value of the following:

$$
3 \sqrt{12} \cdot 4 \sqrt{3}
$$

8. Simplify the radical.

$$
\sqrt{2940 x^{4} y^{5} z}
$$

9. 

If $A=\boldsymbol{A} C+u s$, which equation is solved for $s$ ?

A $s=\frac{b c}{A-U}$

B $s=\frac{A-b c}{u}$

C $s=\frac{A+b c}{u}$

D $s=A-b c-u$
10. Solve for $y$.

$$
y-8 x=7
$$

