

Math095 Basic Algebra – Arrowsmith – PreTest 4

Name _____

Each of the 18 questions is worth 5 points plus 1 point for each of 10 homework problems for a total of 100 points

Decide whether or not the ordered pair is a solution to the equation.

1) $-18x + 10y = -12$; $(-1, -3)$

Complete the table of values. Write the results as ordered pairs.

2) $8x + y = -44$

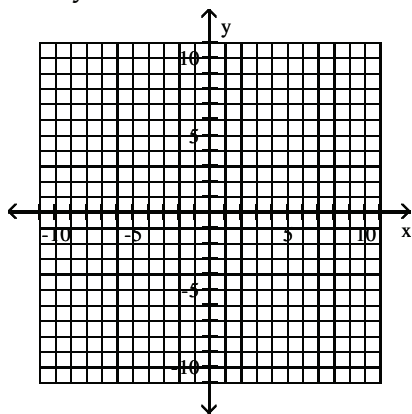
<u>x</u>	<u>y</u>
-6	
0	
1	

Find the intercepts for the graph of the equation.

3) $-2x + y = 8$

Graph the linear equation.

4) $3x - y = -3$



Find the slope of the line through the pair of points.

5) $(7, 2)$ and $(-1, 6)$

Find the slope of the line.

6) $2x + 4y = 14$

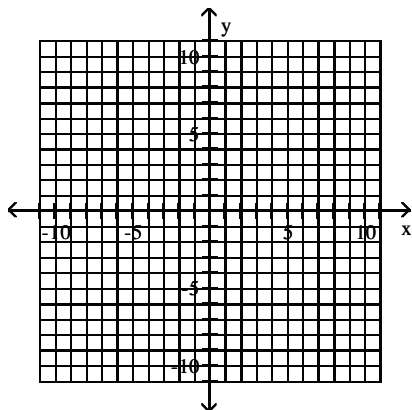
Write the equation of the line with the given slope and y -intercept.

7) slope $\frac{7}{2}$;

y-intercept (0, -4)

Graph the line through the given point with the given slope.

8) (-2, -3), m = 4



Find the square root.

9) $-\sqrt{\frac{400}{169}}$

Find the root.

10) $\sqrt[3]{-343}$

Simplify the radical.

11) $\sqrt{396}$

Simplify the radical. Assume that all variables represent nonnegative real numbers.

12) $\sqrt{169m^7n^{10}}$

Simplify and add or subtract wherever possible.

13) $10\sqrt{32} + 10\sqrt{162} + 2\sqrt{128}$

Perform the indicated operation. Assume that all variables represent nonnegative real numbers.

14) $\sqrt{2x} + 8\sqrt{8x} + 8\sqrt{32x}$

Rationalize the denominator.

15) $\sqrt{\frac{2}{11}}$

16) $\frac{9}{\sqrt{80}}$

Simplify the expression.

17) $(7\sqrt{3} + 10\sqrt{2})(8\sqrt{3} + 4\sqrt{2})$

Write the quotient in lowest terms.

18) $\frac{48 - 42\sqrt{242}}{42}$