

Algebra I Homework #10

- 1) Graph and label each of the following points all on one graph and state the quadrant for each point:
A. $(-3, -5)$ B. $(4, 2)$ C. $(5, -1)$ D. $(-4, 0)$ E. $(-3, 4)$
- 2) Graph the equation $5x - 4 = 11$
- 3) Graph the equation $2x = -5y$
- 4) Find $A \cap B$ if $A = \{2, -7, 5, -3, 1, 15\}$ and $B = \{-5, 3, 0, 7, -2, 8, -14\}$
- 5) Graph the equation $2x - y = 3$
- 6) Find the x and y intercepts for the equation $3x - 5y = 9$
- 7) Find the slope of the line that goes through the points $(-3, -7)$ and $(-9, 2)$
- 8) Find the equation of the line that has a slope of $\frac{-3}{7}$ and goes through the point $(-14, -1)$
- 9) Find the equation of the line that goes through the points $(5, -1)$ and $(-4, -5)$
- 10) Find the x and y intercepts for the equation $6x + 7y = 14$
- 11) Find the slope of the line that goes through the points $(-5, -1)$ and $(-5, 8)$
- 12) Find the equation of the line that has a slope of $\frac{2}{5}$ and goes through the point $(-3, 4)$.
- 13) Find the equation of the line that is perpendicular to the line $2x - 7y = 21$ and goes through the point $(-6, 5)$
- 14) Find the x and y intercepts for the equation $-8x - 12y = 16$
- 15) Find the slope of the line that goes through the points $(-7, -2)$ and $(-1, 14)$
- 16) Find the equation of the line that goes through the points $(-3, 1)$ and $(-3, -7)$
- 17) Find the equation of the line that is parallel to the line $5x + 3y = -9$ and goes through the point $(-6, -4)$
- 18) Find the slope of the line that goes through the points $(-3, -6)$ and $(6, -3)$
- 19) Find the equation of the line that has a slope of $\frac{-3}{8}$ and goes through the point $(-4, -2)$
- 20) Find the equation of the line that goes through the points $(-1, 5)$ and $(-7, -1)$

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