

Algebra I Homework #11

- 1) Find the x and y intercepts for the equation $4x + 3y = 6$
- 2) Graph the equation $5x - 4y = 8$
- 3) Find the slope of the line that goes through the points $(-1, -8)$ and $(-9, -2)$
- 4) Find the equation of the line that has a slope of $\frac{-2}{5}$ and goes through the point $(-3, 4)$.
- 5) Find the equation of the line that goes through the points $(6, -7)$ and $(6, -3)$.
- 6) Solve $-5x - 5 < 8$ and graph the answers on a number line.
- 7) Graph the inequality $3x - y < 2$
- 8) Solve $-(x - 4) - 3^2 - (-1 - 1)^3 - 5x < 18 \div 6(-1 - 2) - 3(3x - 5) - 7^0$ and graph the answers on a number line.
- 9) Graph the inequality $x - 4y \geq -12$
- 10) Solve $\frac{1}{6}x + \frac{1}{4} \geq \frac{5}{6}$ and graph the answers on a number line.
- 11) Graph the inequality $-7y + 3 > -11$
- 12) Graph the inequality $2x - 5y < 15$
- 13) Solve $-2^4 - 2(5x - 3) - 10 \div 5(-1 - 1) < -(2x - 5) - 3x - (-2 - 1)^2$ and graph the answers on a number line.
- 14) Solve $3x - 9 \geq 5x + 1$ and graph the answers on a number line.
- 15) Graph the inequality $2x - 6 \geq -12$
- 16) Graph the inequality $2x + 9 > -3y$
- 17) Solve $-3(4x - 1) - 2^3 - (-x - 3) - 5^0 < -(-2 - 2)^2 - 1^8 - 2(5x - 4)$ and graph the answers on a number line.
- 18) Solve $\frac{3}{5}x - \frac{2}{3} < \frac{4}{5} - \frac{1}{3}x$ and graph the answers on a number line.
- 19) Solve $-8x + 3(2x - 4) - 9^0 - (-1 - 2)^3 < -(-2x + 7) - 8 \div 4 \div 2 - 3^2$ and graph the answers on a number line.
- 20) Graph the inequality $3x > -y$

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