Name
Date
Course

Graphing Linear Equations and Inequalities (Homework)

Graph the following linear equations. Show all work, just as we did in class.

① $y = x - 1$

② $x = y + 4$

③ $\frac{y}{5} = x$

④ $-3x = y$

⑤ $y = 2x + 3$

⑥ $x = -y + 1$

⑦ $x = -\frac{y}{3} + 1$

⑧ $2 - \frac{x}{3} = y$

⑨ $y = 200 - 2x$

⑩ $-100 - 4x = y$

⑪ $-x + 1 = y$

⑫ $x - y = 10$

⑬ $-y - x = 3$

⑭ $y = -4x$

⑮ $3x + 4y = 2$

⑯ $-3y + 2x = 3$

Graph the following linear inequalities. Show all work, just as we did in class.

⑰ $x > 5 + y$

⑱ $x \leq -6y$

⑲ $y > 2 - 3x$

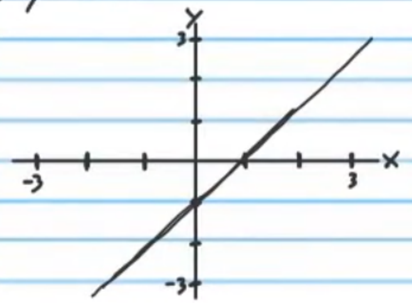
⑳ $\frac{x}{-2} - 5 < y$

㉑ $x + y \geq 20$

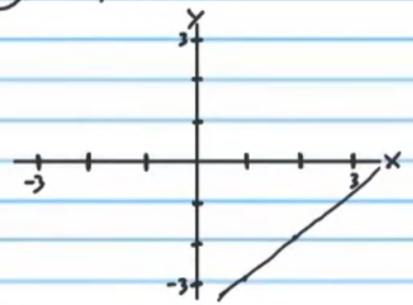
㉒ $5x - 2y \leq 1$

Homework Answers

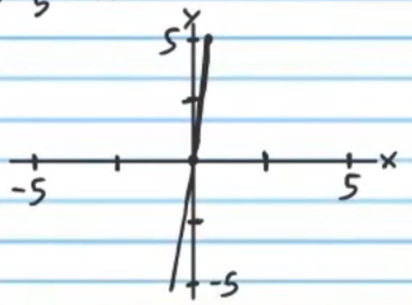
① $y = x - 1$



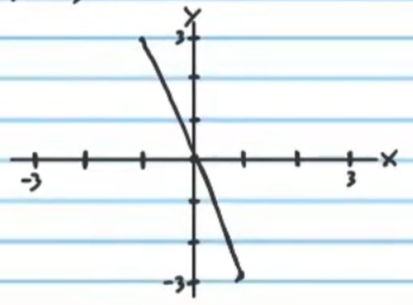
② $x = y + 4$



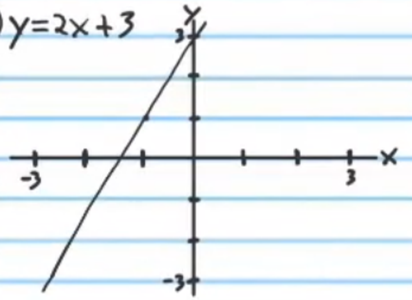
③ $\frac{y}{5} = x$



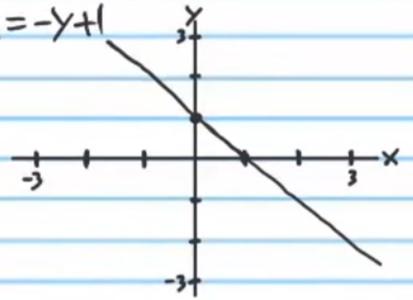
④ $-3x = y$



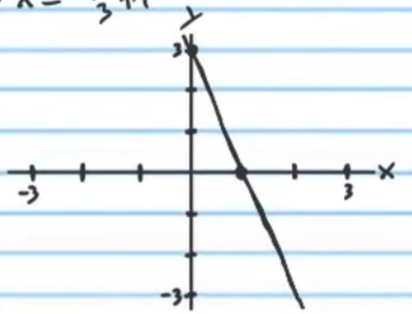
⑤ $y = 2x + 3$



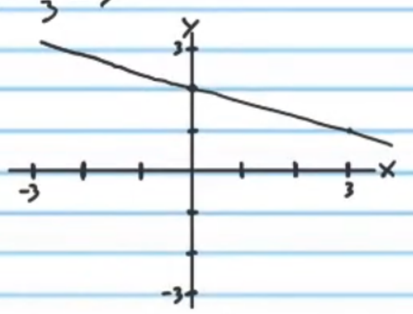
⑥ $x = -y + 1$



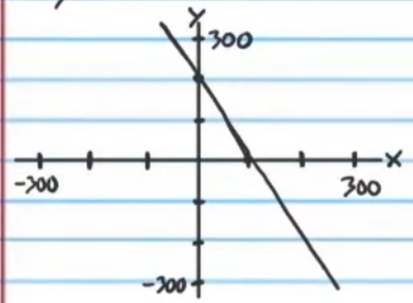
⑦ $x = -\frac{y}{3} + 1$



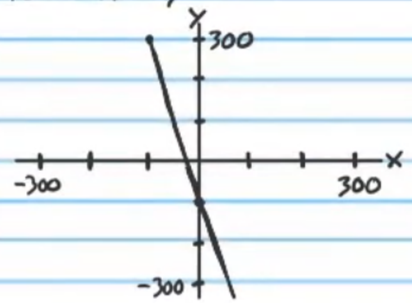
⑧ $2 - \frac{x}{3} = y$



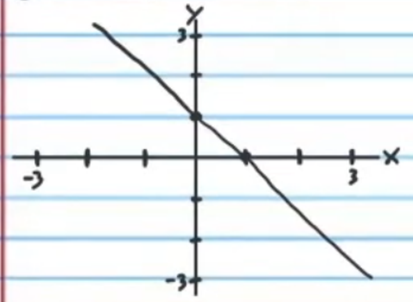
⑨ $y = 200 - 2x$



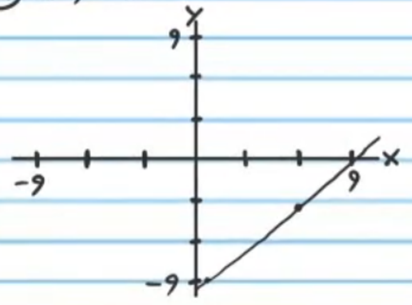
⑩ $-100 - 4x = y$



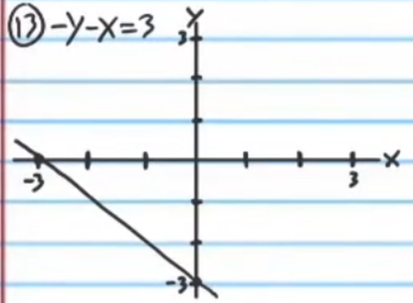
⑪ $-x + 1 = y$



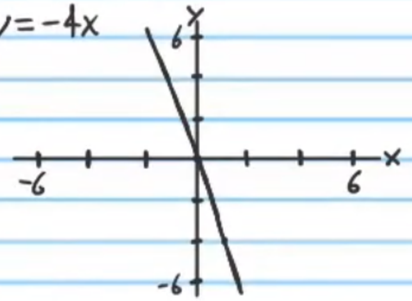
⑫ $x - y = 10$



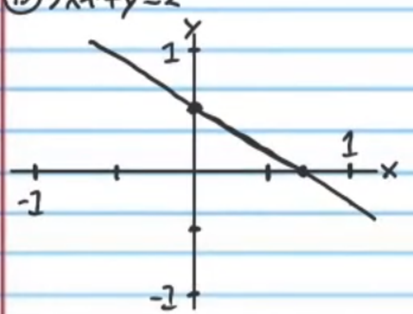
⑬ $-y - x = 3$



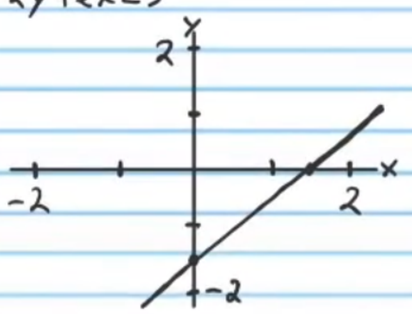
⑭ $y = -4x$



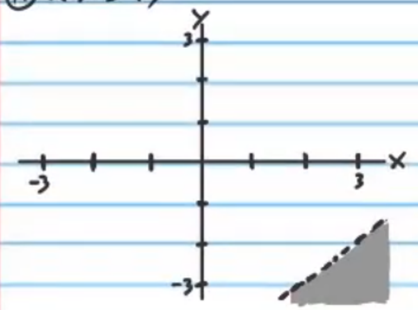
⑮ $3x + 4y = 2$



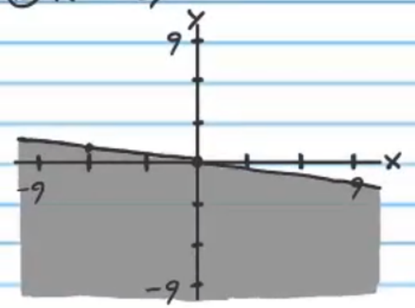
⑯ $-2y + 2x = 3$



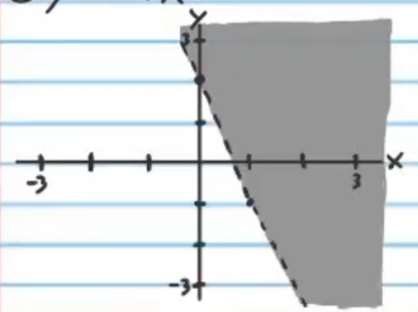
(17) $x > 5 + y$



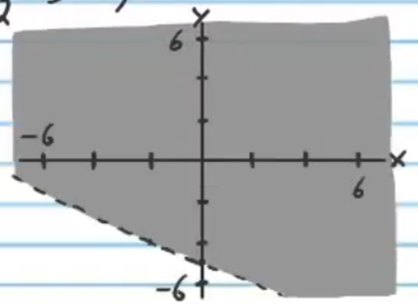
(18) $x \leq -6y$



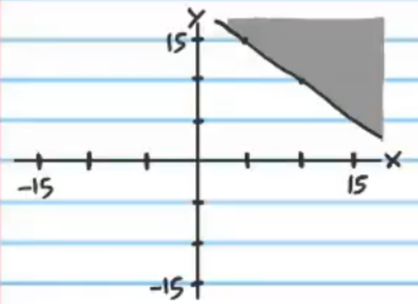
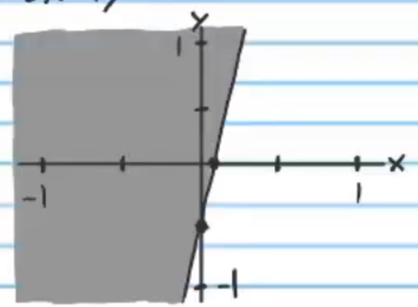
(19) $y > 2 - 3x$



(20) $\frac{x}{-2} - 5 < y$



(21) $x + y \geq 20$



(22) $5x - 2y \leq 1$