

Algebra 2 WarmUp

Solving Systems of Linear Equations Graphically

Solve for y

1) $5y + 10x = 35$

2) $6 - 2y = 7x$

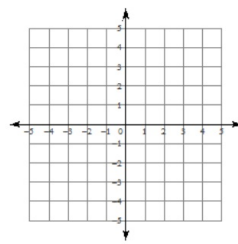
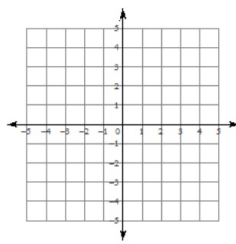
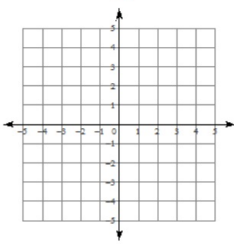
3) $-2 = 3x - 2y$

Graph each linear equation

4) $y = \frac{2}{3}x - 1$

5) $y = -2x - 4$

6) $12 = -5x + 4y$



Algebra 2 WarmUp

Solving Systems of Linear Equations Graphically

Solve for y

1) $5y + 10x = 35$

2) $6 - 2y = 7x$

3) $-2 = 3x - 2y$

$5y = -10x + 35$

$-2y = 7x - 6$

$-2y = -3x - 2$

$y = -2x + 7$

$y = \frac{7}{-2}x + 3$

$y = \frac{3}{2}x + 1$

$y = 7 - 2x$

Graph each linear equation

4) $y = \frac{2}{3}x - 1$

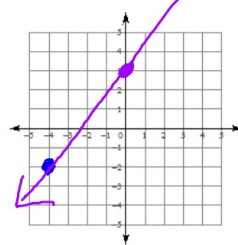
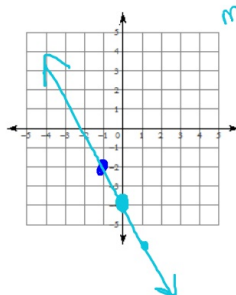
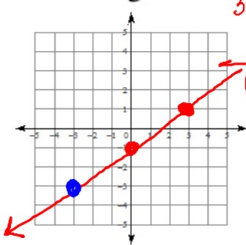
$\frac{2}{3} = \frac{-2}{-3}$

5) $y = -2x - 4$

$m = \frac{-2}{-1} = \frac{2}{1}$

6) $12 = -5x + 4y$

$m = \frac{5}{4} = \frac{5}{4}$



$12 + 5x = 4y$

$4y = 5x + 12$

$y = \frac{5}{4}x + 3$

Answers to question on homework from Section 4.1 page 161

⑫ $6x + 3y - 12 = 0$

$3y - 12 = -6x$

$3y = -6x + 12$

$y = -2x + 4$

$m = -2$
 $b = 4$

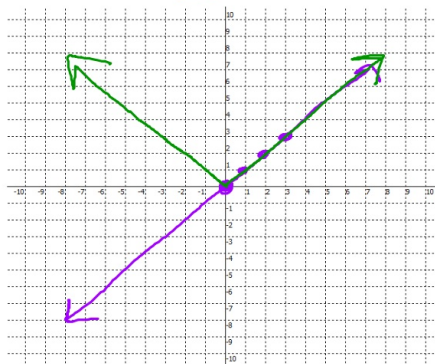
⑬ $x - y = 0$

$-y = -x$

$y = x$

$y = |x|$

$y = x$ when $x \geq 0$



Answers to question on homework from Section 4.1 page 161

⑮ $4x - y = 9$

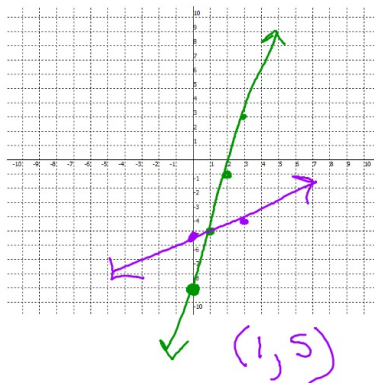
$-y = -4x + 9$

$y = 4x - 9$

$x - 3y = 16$

$-3y = -x + 16$

$y = \frac{1}{3}x - \frac{16}{3}$



Problem #1 from the assignment: worksheet on Solving Systems of equations graphically

$$\textcircled{1} \begin{array}{ll} y = -2x - 4 & y = 5x + 3 \\ m = -2 = \frac{-2}{1} \text{ or } \frac{2}{-1} & m = \frac{5}{1} = \frac{-5}{-1} \\ b = -4 & b = 3 \end{array}$$

