



Graphing systems of linear equations - slope/intercept

Find both coordinates of the solution to each system by drawing a graph of each equation.

1) $y = -x - 4$
 $y = -x + 2$

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

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

4) $y = -\frac{5}{3}x - 3$
 $y = \frac{1}{3}x + 3$

$$5) y = -\frac{7}{2}x - 3$$
$$y = 4$$

$$6) y = -5x - 2$$
$$y = -x + 2$$

$$7) y = \frac{7}{4}x + 3$$
$$y = \frac{7}{4}x + 4$$

$$8) y = \frac{1}{2}x - 4$$
$$y = -\frac{5}{2}x + 2$$

$$9) y = x - 3$$
$$y = -5x + 3$$

$$10) y = -\frac{5}{3}x - 1$$
$$y = -\frac{5}{3}x + 3$$

$$11) \begin{aligned} y &= -4x + 3 \\ y &= -4x - 2 \end{aligned}$$

$$12) \begin{aligned} y &= x - 3 \\ y &= -\frac{1}{4}x + 2 \end{aligned}$$

$$13) \begin{aligned} y &= 2x - 4 \\ y &= \frac{1}{3}x + 1 \end{aligned}$$

$$14) \begin{aligned} y &= \frac{5}{3}x + 1 \\ y &= \frac{1}{3}x - 3 \end{aligned}$$

$$15) \begin{aligned} y &= \frac{1}{3}x - 2 \\ y &= \frac{1}{3}x + 2 \end{aligned}$$

$$16) \begin{aligned} y &= -\frac{1}{2}x + 4 \\ y &= x + 1 \end{aligned}$$

$$17) \ y = \frac{1}{2}x - 1$$
$$y = \frac{7}{4}x + 4$$

$$18) \ y = \frac{1}{2}x - 2$$
$$y = -x + 1$$

$$19) \ y = -\frac{1}{2}x + 4$$
$$y = 2x - 1$$

$$20) \ y = \frac{1}{2}x + 2$$
$$y = -2x - 3$$

$$21) \ y = 5x - 1$$
$$y = 5x + 1$$

$$22) \ y = -\frac{5}{3}x + 4$$
$$y = -\frac{5}{3}x + 2$$

$$23) y = -\frac{3}{2}x + 4$$

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

$$24) y = 4x + 4$$

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

$$25) y = \frac{1}{2}x - 2$$

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

$$26) y = -\frac{3}{2}x - 1$$

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

$$27) y = -\frac{1}{3}x + 2$$

$$y = -\frac{5}{3}x - 2$$

$$28) y = 2x - 1$$

$$y = -3$$

$$29) y = -x + 1$$

$$y = -6x - 4$$

$$30) y = -\frac{1}{2}x + 1$$

$$y = \frac{1}{4}x + 4$$

Answers to Graphing systems of linear equations - slope/intercept

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|-----------------|-----------------|-----------------|----------------|
| 1) No solution | 2) $(-4, -1)$ | 3) $(3, -4)$ | 4) $(-3, 2)$ |
| 5) $(-2, 4)$ | 6) $(-1, 3)$ | 7) No solution | 8) $(2, -3)$ |
| 9) $(1, -2)$ | 10) No solution | 11) No solution | 12) $(4, 1)$ |
| 13) $(3, 2)$ | 14) $(-3, -4)$ | 15) No solution | 16) $(2, 3)$ |
| 17) $(-4, -3)$ | 18) $(2, -1)$ | 19) $(2, 3)$ | 20) $(-2, 1)$ |
| 21) No solution | 22) No solution | 23) $(4, -2)$ | 24) $(-2, -4)$ |
| 25) $(2, -1)$ | 26) $(-2, 2)$ | 27) $(-3, 3)$ | 28) $(-1, -3)$ |
| 29) $(-1, 2)$ | 30) $(-4, 3)$ | | |