

Objectives

- Find the coordinates of the intercepts.
- Use intercepts to graph linear equations
- Graph horizontal and vertical lines

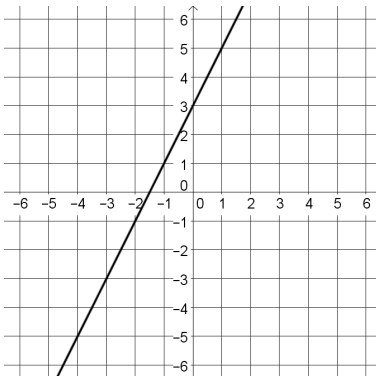
Exercises

- Find the coordinates of the (i) x -intercept and (ii) y -intercept.
a) $3x - 2y = 0$ b) $4x - 5y = 3$ c) $15x - 30 = 3y$ d) $2y - 3 = 8x$
- Graph each equation by plotting the intercepts and one other point.
a) $y = 2x + 3$ b) $3x + 2y = 6$ c) $y = -\frac{1}{4}x - 3$ d) $\frac{3}{2}x + y = 5$
- Graph each equation. Be sure to simplify the equation before graphing it.
a) $x = 5$ b) $y = -4$ c) $3x - 6 = 7x$ d) $y - 5 = 5y$

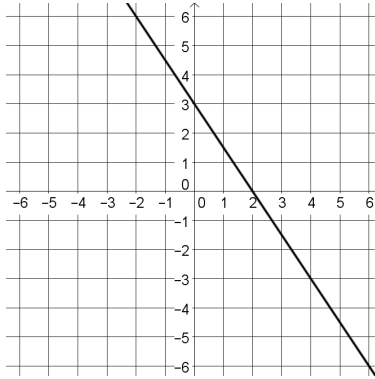
Answers: 1a) (i) $(0,0)$ (ii) $(0,0)$ b) (i) $(\frac{3}{4}, 0)$ (ii) $(0, \frac{-3}{5})$ c) (i) $(2, 0)$ (ii) $(0, -10)$
d) (i) $(-\frac{3}{8}, 0)$ (ii) $(0, \frac{3}{2})$

(answers continued on the next page)

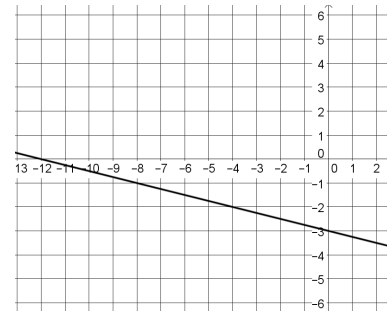
2)



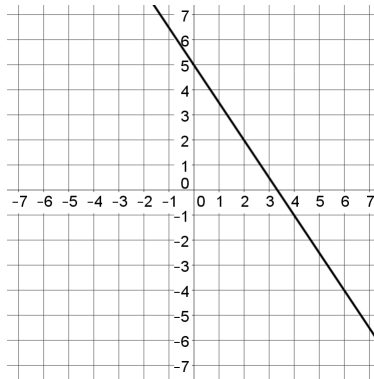
(a)



(b)

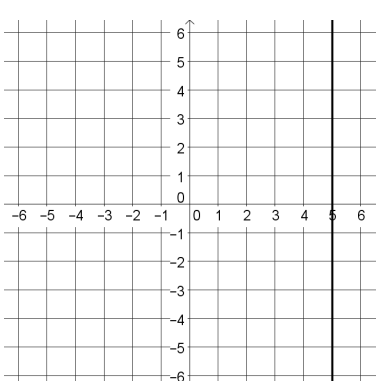


(c)

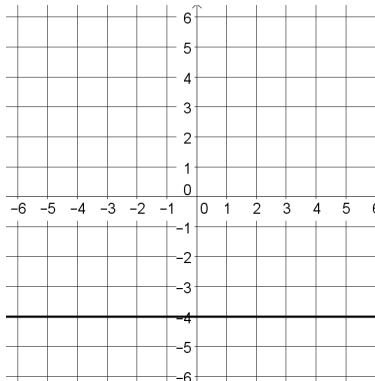


(d)

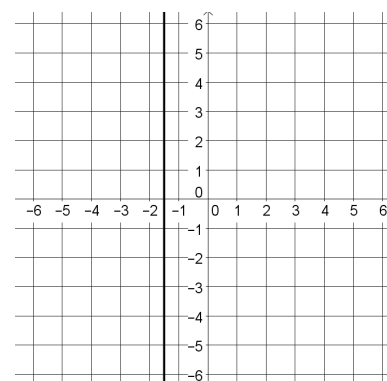
3)



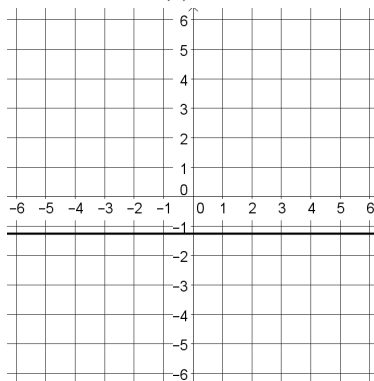
(a)



(b)



(c)



(d)