

Equation of a Line | Two Intercepts

Find the equation of the line with given x and y intercepts.

1) x -intercept = 8 ; y -intercept = 6

2) x -intercept = -5 ; y -intercept = 4

3) x -intercept = 9 ; y -intercept = 3

4) x -intercept = -1 ; y -intercept = 7

5) x -intercept = 10 ; y -intercept = -10

6) x -intercept = -6 ; y -intercept = -2

7) x -intercept = -4 ; y -intercept = 1

8) x -intercept = -9 ; y -intercept = 5

9) Find the equation of the line which cuts the x -axis at $(4, 0)$ and the y -axis at $(0, -8)$.

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Answer key

Find the equation of the line with given x and y intercepts.

1) x -intercept = 8 ; y -intercept = 6

$$y = -\frac{3}{4}x + 6$$

2) x -intercept = -5 ; y -intercept = 4

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

3) x -intercept = 9 ; y -intercept = 3

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

4) x -intercept = -1 ; y -intercept = 7

$$y = 7x + 7$$

5) x -intercept = 10 ; y -intercept = -10

$$y = x - 10$$

6) x -intercept = -6 ; y -intercept = -2

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

7) x -intercept = -4 ; y -intercept = 1

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

8) x -intercept = -9 ; y -intercept = 5

$$y = \frac{5}{9}x + 5$$

9) Find the equation of the line which cuts the x -axis at (4, 0) and the y -axis at (0, -8).

$$y = 2x - 8$$