



Writing linear equations

Using the given coordinates, write down the slope-intercept form of the equation of each line.

1) through: $(0, -4)$ and $(-1, 1)$

2) through: $(-2, -2)$ and $(0, -4)$

3) through: $(0, -5)$ and $(-4, -1)$

4) through: $(0, -5)$ and $(4, -5)$

5) through: $(0, -2)$ and $(2, 0)$

6) through: $(0, -1)$ and $(-2, -3)$

7) through: $(-4, 1)$ and $(-3, 0)$

8) through: $(0, 0)$ and $(-4, 4)$

9) through: $(0, -3)$ and $(5, 5)$

10) through: $(-4, 2)$ and $(-5, 3)$

11) through: $(-4, 5)$ and $(-1, 2)$

12) through: $(0, 0)$ and $(-3, 4)$

13) through: $(-2, 4)$ and $(-4, -4)$

14) through: $(-4, -2)$ and $(-3, -5)$

15) through: $(3, -2)$ and $(-5, -2)$

16) through: $(-3, -2)$ and $(3, 1)$

17) through: $(0, -1)$ and $(5, 5)$

18) through: $(5, 5)$ and $(-4, 4)$

19) through: $(3, 2)$ and $(0, 2)$

20) through: $(5, -1)$ and $(5, -4)$

21) through: $(-5, -2)$ and $(2, 1)$

22) through: $(-5, -4)$ and $(0, 5)$

23) through: $(0, 5)$ and $(1, 1)$

24) through: $(3, -1)$ and $(0, 3)$

25) through: $(0, -4)$ and $(3, -4)$

26) through: $(0, -4)$ and $(-4, 4)$

27) through: $(-3, 4)$ and $(0, -2)$

28) through: $(-4, 4)$ and $(0, -5)$

29) through: $(-4, 0)$ and $(2, 4)$

30) through: $(5, -1)$ and $(0, -2)$

Answers to Writing linear equations

1) $y = -5x - 4$

5) $y = x - 2$

9) $y = \frac{8}{5}x - 3$

13) $y = 4x + 12$

17) $y = \frac{6}{5}x - 1$

21) $y = \frac{3}{7}x + \frac{1}{7}$

25) $y = -4$

29) $y = \frac{2}{3}x + \frac{8}{3}$

2) $y = -x - 4$

6) $y = x - 1$

10) $y = -x - 2$

14) $y = -3x - 14$

18) $y = \frac{1}{9}x + \frac{40}{9}$

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

26) $y = -2x - 4$

30) $y = \frac{1}{5}x - 2$

3) $y = -x - 5$

7) $y = -x - 3$

11) $y = -x + 1$

15) $y = -2$

19) $y = 2$

23) $y = -4x + 5$

27) $y = -2x - 2$

4) $y = -5$

8) $y = -x$

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

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

20) $x = 5$

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

28) $y = -\frac{9}{4}x - 5$