

Equation of a Line containing two Points Exercises

Write the slope-intercept form of the equation of the line through the given points.

1) through: (4, 4) and (5, 2)

- A) $y = 2x + 12$
- B) $y = -12x + 2$
- C) $y = 12x + 2$
- D) $y = -2x + 12$

2) through: (0, 1) and (3, -5)

- A) $y = x - 2$
- B) $y = -x - 2$
- C) $y = -2x + 1$
- D) $y = 4x - 2$

3) through: (3, -3) and (0, 3)

- A) $y = 3x - 1$
- B) $y = -2x + 3$
- C) $y = 2x + 3$
- D) $y = -x + 3$

4) through: (5, 3) and (0, 3)

- A) $x = 3$
- B) $y = 3$
- C) $y = 3x$
- D) $y = -3x$

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

- A) $y = 2x + 1$
- B) $y = x + 2$
- C) $y = 5x + 1$
- D) $y = -2x + 1$

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

- A) $y = -4x + 2$
- B) $y = -x + 2$
- C) $y = 2x - 1$
- D) $y = 2x - 4$

7) through: (0, -5) and (2, 3)

- A) $y = 4x - 5$
- B) $y = 5x - 5$
- C) $y = -3x - 5$
- D) $y = -5x - 5$

8) through: (-2, 2) and (-1, 1)

- A) $y = 1$
- B) $y = -x$
- C) $y = x$
- D) $y = -5x + 1$

9) through: (3, -4) and (0, 5)

- A) $y = -x + 5$
- B) $y = 3x + 5$
- C) $y = -2x + 5$
- D) $y = -3x + 5$

10) through: (0, -2) and (-1, 3)

- A) $y = -2x - 2$
- B) $y = 5x - 2$
- C) $y = -5x - 2$
- D) $y = 3x - 2$

11) through: (0, -1) and (1, 1)

- A) $y = -x - 5$
- B) $y = -5x - 1$
- C) $y = 5x - 1$
- D) $y = 2x - 1$

12) through: (-1, 5) and (0, 2)

- A) $y = 2x + 3$
- B) $y = -3x + 2$
- C) $y = 3x + 2$
- D) $y = -2x + 3$

13) through: (-3, 4) and (5, -4)

- A) $y = -x + 1$
- B) $y = 2x + 1$
- C) $y = x + 2$
- D) $y = -x + 2$

14) through: (0, -4) and (1, 2)

- A) $y = 4x - 6$
- B) $y = -4x - 6$
- C) $y = -6x - 4$
- D) $y = 6x - 4$

Answers to

1) D
5) A
9) D
13) A

2) C
6) B
10) C
14) D

3) B
7) A
11) D

4) B
8) B
12) B