

Elementary Algebra Skill

Writing Equations of Horizontal and Vertical Lines

Write an equation for the each of the following.

1. horizontal line through the point $(2,5)$
2. vertical line containing $(-9,-3)$
3. line has undefined slope and passes through $(\frac{1}{4},8)$
4. line contains $(3.5, 7.2)$ and has slope 0
5. line is parallel to the x -axis and contains $(-9,10)$
6. line goes through $(11,12)$ and is parallel to the y -axis
7. line passes through $(5,-6)$ and is perpendicular to the y -axis
8. line has no slope and contains the origin
9. line is parallel to $x = 2$ and contains $(6,0)$
10. line is perpendicular to $x = -3$ and contains $(0,-7)$

Answers to Writing Equations of Horizontal and Vertical Lines

1. $y = 5$

2. $x = -9$

3. $x = \frac{1}{4}$

4. $y = 7.2$

5. $y = 10$

6. $x = 11$

7. $y = -6$

8. $x = 0$

9. $x = 6$

10. $y = -7$