Ch 2 QUIZ Review Linear Equations

Sketch the graph of each line.

1) \( y = \frac{1}{2}x - 1 \)

2) \( 2x + 3y = -9 \)

Write the slope-intercept form of the equation of each line.

3)

\[ \text{Find the } x \text{ and } y \text{ intercepts.} \]

4) \( 4x - 7y = 28 \)

Write the standard form of the equation of each line.

5) \(-y = -\frac{9}{2}x + \frac{35}{2}\)

6) through: \((-1, 4)\), slope = -5

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

7) through: \((-2, 1)\) and \((-1, -4)\)

8) through: \((-5, 2)\) and \((-1, 3)\)

Write the standard form of the equation of the line described.

9) through: \((-3, -1)\), parallel to \(x = 0\)

10) through: \((-1, 1)\), parallel to \(y = \frac{2}{3}x - 5\)

11) through: \((2, 5)\), perp. to \(y = -\frac{2}{9}x - 3\)

12) through: \((1, 4)\), perp. to \(y = -x\)

Which of the following is a linear function?

13) \( f(x) = x^4 - x^2 \)

14) \( x^2 - y^2 - 10x - 16y - 119 = 0 \)

15) \( y = \sqrt{x} + 1 \)

16) \( y + 3 = 8(x + 1) \)
Answers to Ch 2 QUIZ Review Linear Equations

1) 

2) 

3) $y = x + 2$

4) $x: (7,0) \ y: (0,-4)$

5) $9x - 2y = 35$

6) $y = -5x - 1$

7) $y = -5x - 9$

8) $y = \frac{1}{4}x + \frac{13}{4}$

9) $x = -3$

10) $2x - 3y = -5$

11) $9x - 2y = 8$

12) $x - y = -3$

13) no

14) no

15) no

16) yes