

Algebra 3 Assignment # 3

Write the equation in slope intercept form:

(1) $4x - 3y - 7 = 0$

(2) $\frac{1}{4}x - \frac{1}{2}y = 1$

Write equation of the line in standard form:

(3) (2,3) (3,2)

(4) (3,0) (0,-3)

(5) (-1,-13) (-8,1)

(6) (10,27) (12,27)

(7) Two lines, parallel to the coordinate axes intersect at the point (5,-7). What are their equations?

(8) Write the equation of the line parallel to $2x + 3y = 6$ that passes through the point (1,-1).

Write the equation of the line that is perpendicular to the given line and passes through the indicated point.

(9) $y = 3x - 1$; (4,7)

(10) $y - 2x = 5$; (-5,1)

Answers:

1. $y = \frac{4}{3}x - \frac{7}{3}$

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

3. $y + x = 5$

4. $y - x = -3$

5. $2x + y = -15$

6. $y = 27$

7. $x = 5$ and $y = -7$

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

9. $y = -\frac{1}{3}x + 8\frac{1}{3}$

10. $y = -\frac{1}{2}x - 1\frac{1}{2}$