

Q1HW5

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Solve each compound inequality and graph its solution.

1) $5m - 6 > -2m + 1$ or $4m - 2 > 5m + 4$

2) $4 + 4r \leq -3 - 3r < 1 - r$

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

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

4) through: (3, -3) and (1, 1)

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

6) through: (2, 5) and (-3, 2)

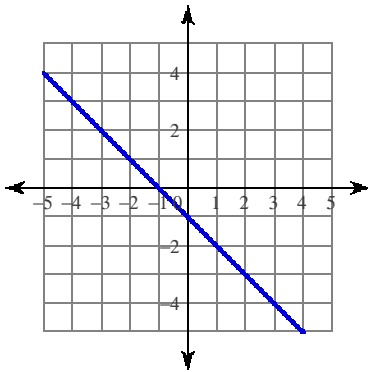
Write the slope-intercept form of the equation of the line described.

7) through: (1, -1), parallel to $y = 4x + 2$

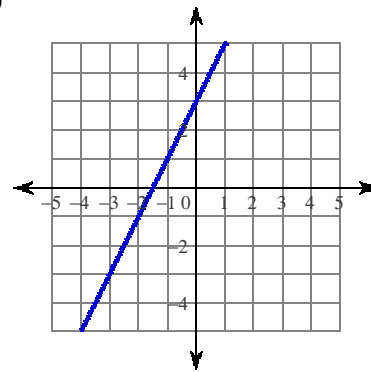
8) through: (2, -3), perp. to $y = -\frac{7}{2}x$

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

9)



10)

**Solve each system.**

11) $0 = 5 + y + 2x$
 $5 = -4x - 7y$

12) $3y = -5x + 11$
 $-20x = -24 + 2y$

13) $y = 5x + 22$
 $-8x + 7y = -8$

14) $3x - 6y = -15$
 $y = x + 6$