

## HW 7 Systems of Linear Inequalities

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

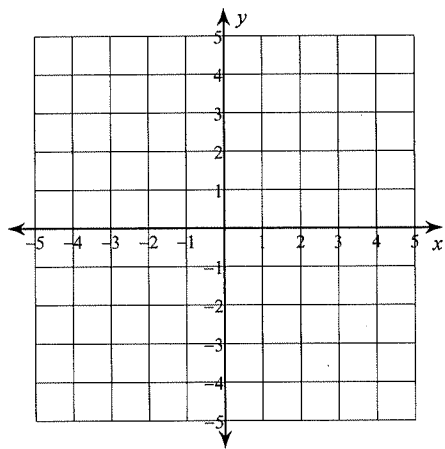
1)  $x - 3y = 15$

2)  $5x = -4 + 4y$

Sketch the solution to each system of inequalities.

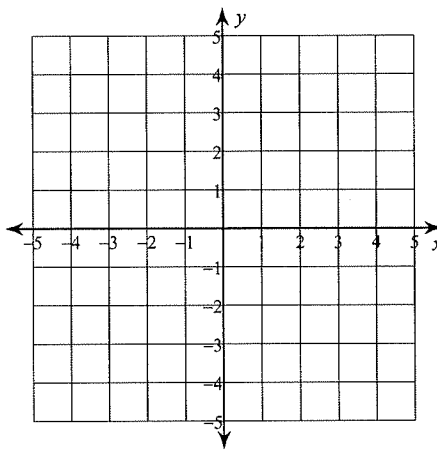
3)  $y > \frac{1}{2}x + 2$

$y < -2x - 3$



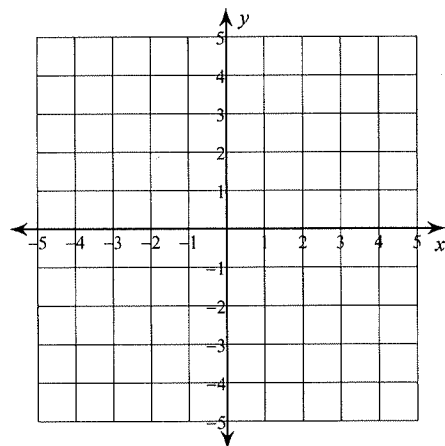
4)  $y < \frac{2}{3}x - 1$

$y \geq 2x + 3$



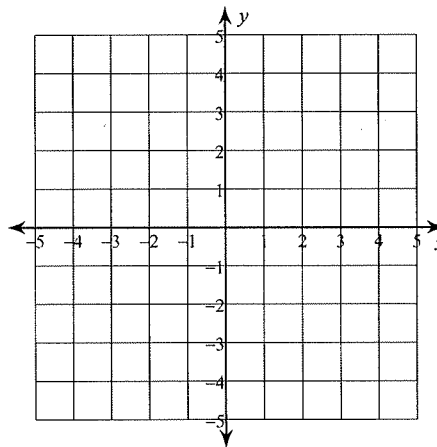
5)  $y < -\frac{3}{2}x + 2$

$x < 2$



6)  $x - y \leq 1$

$x + 3y \geq 9$



Solve each equation.

7)  $111 = 1 - 5(3 - 5v)$

8)  $100 = 5n + 4(4n + 4)$

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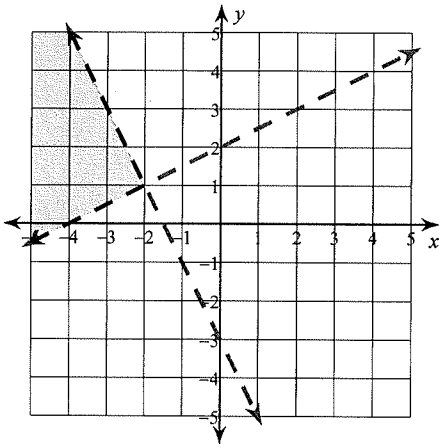
$$y = \frac{1}{3}x - 5$$

2)  $5x = -4 + 4y \quad y = \frac{5}{4}x + 1$

Sketch the solution to each system of inequalities.

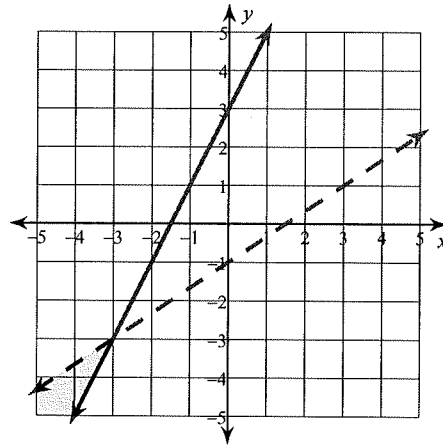
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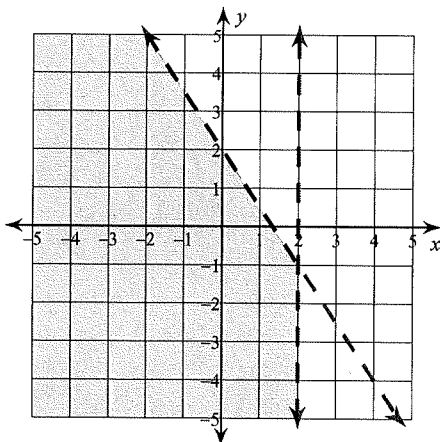
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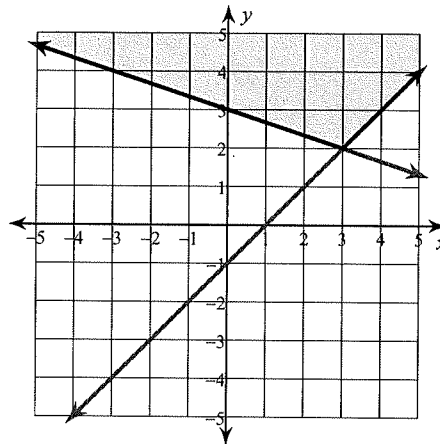
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Solve each equation.

7)  $111 = 1 - 5(3 - 5v)$

{5}

8)  $100 = 5n + 4(4n + 4)$

{4}