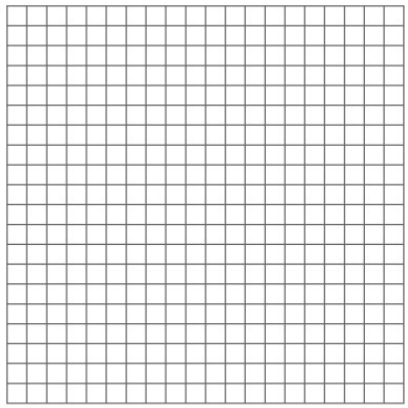
Solving Systems of Linear Inequalities by Graphing

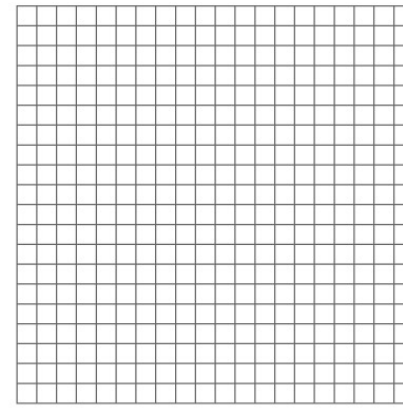
MATH MONKS

Graph the system of linear inequalities.

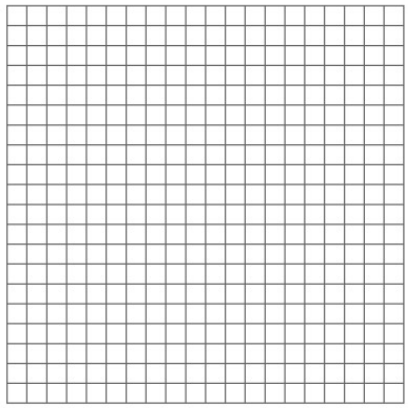
1. $3x + y \leq 1$; $y > \frac{2}{3}x - 2$



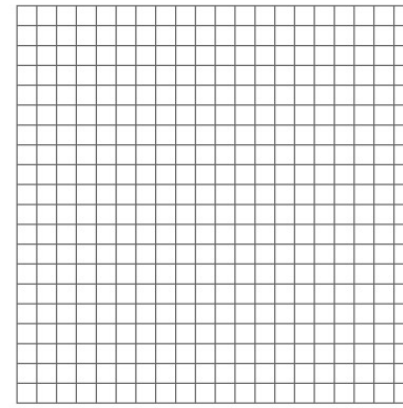
2. $x > 2$; $y \leq -\frac{1}{2}x - 2$



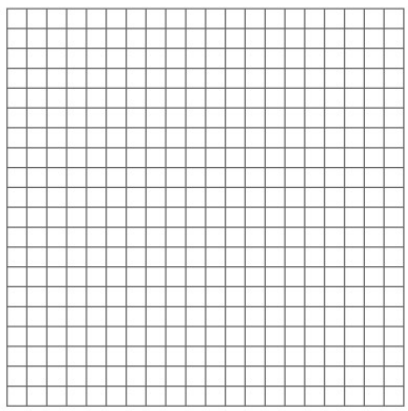
3. $y \leq \frac{1}{2}x - 5$; $y \geq -2x + 12$



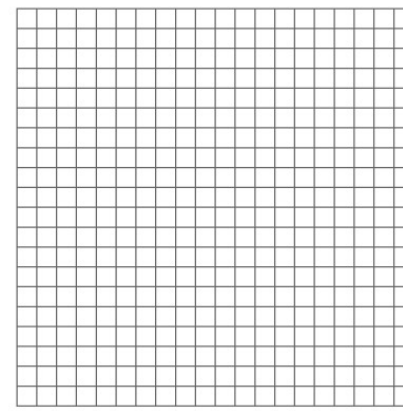
4. $y \geq 2x + 6$; $y \leq -\frac{1}{2}x - 1$



5. $y \leq \frac{4}{5}x - 4$; $y < 2x - 8$



6. $x \geq -6$; $y < 3$



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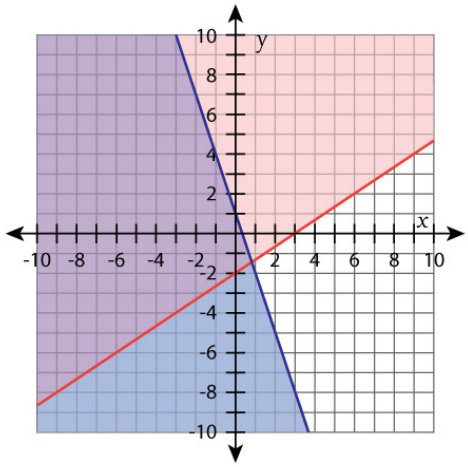
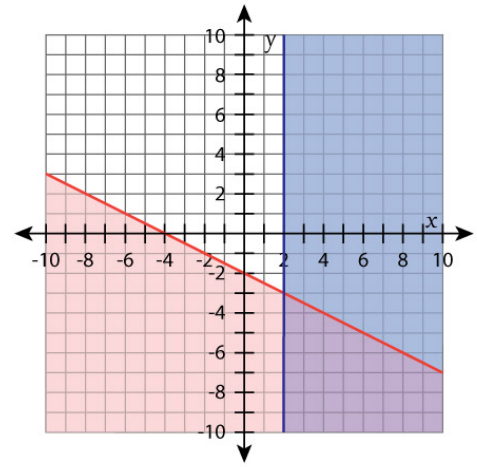
Answers

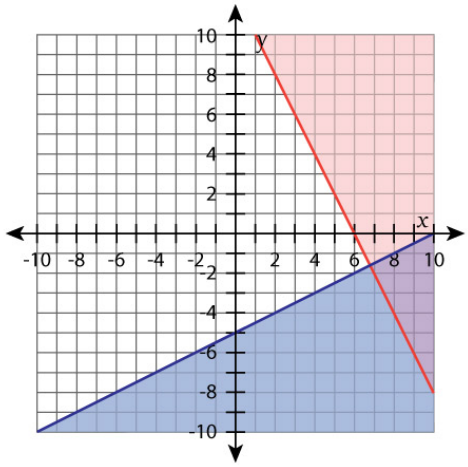
1 $3x + y \leq 1$; $y > \frac{2}{3}x - 2$



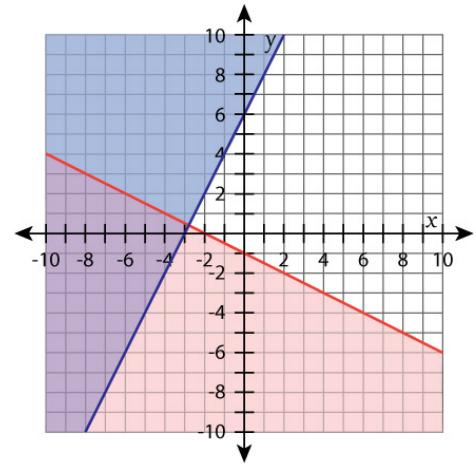
2 $x > 2$; $y \leq -\frac{1}{2}x - 2$



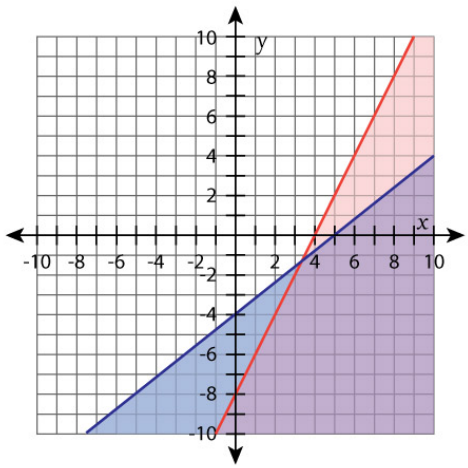
3 $y \leq \frac{1}{2}x - 5$; $y \geq -2x + 12$



4 $y \geq 2x + 6$; $y \leq -\frac{1}{2}x - 1$



5 $y \leq \frac{4}{5}x - 4$; $y < 2x - 8$



6 $x \geq -6$; $y < 3$