

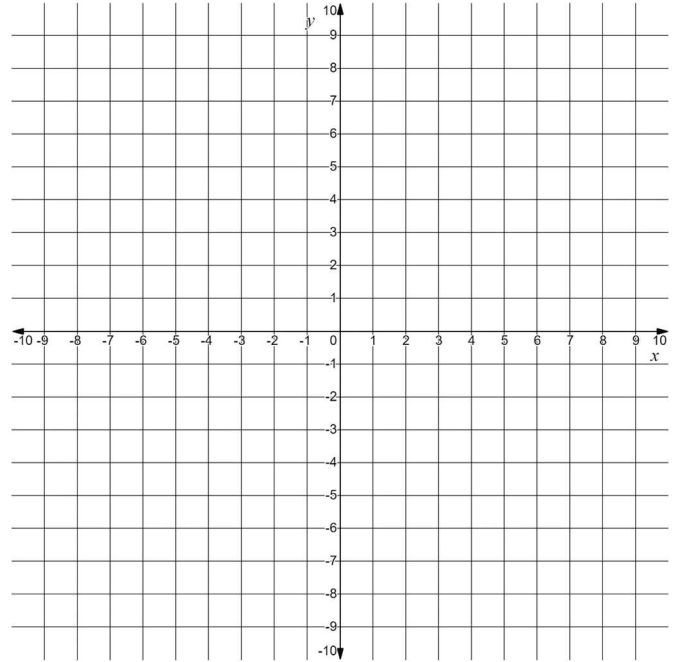
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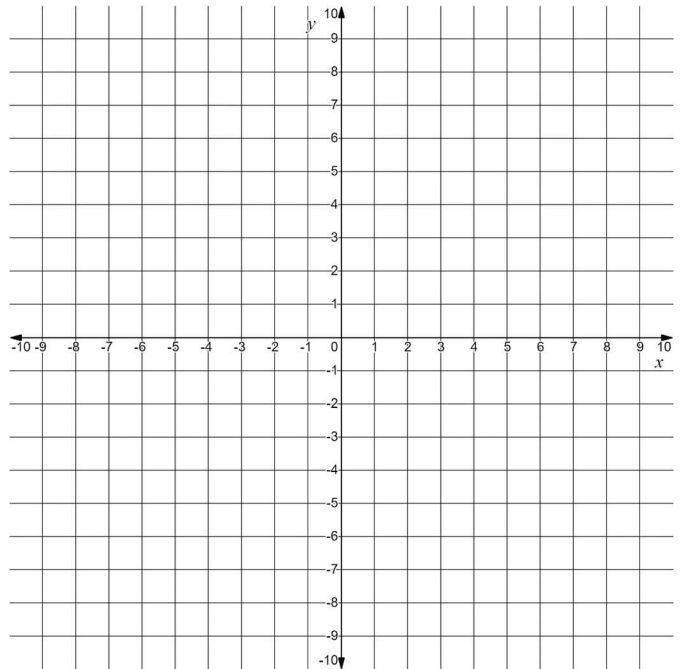
Learning Goal 9.1

Solving linear inequalities.

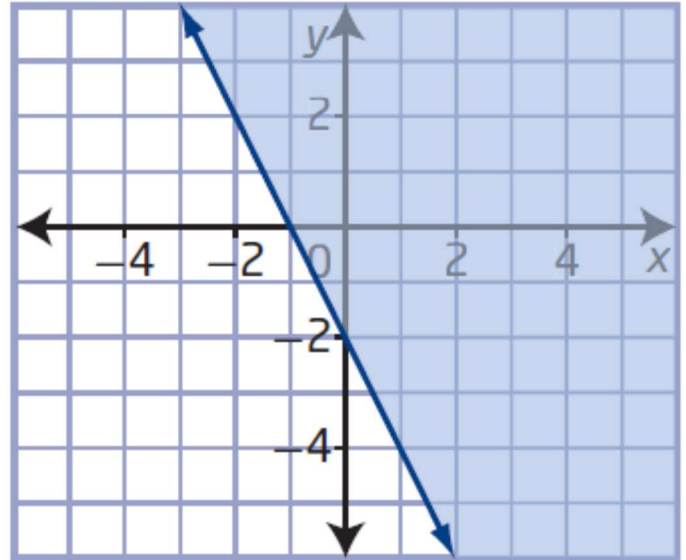
1. Graph $4x + 2y \leq 12$ and determine whether $(1, 3)$ is part of the solution.



2. Graph $5x - 20y > 0$.



3. Write an inequality to represent the graph.



4. Find all possible combinations of tile and stone that can be used to make a mosaic. Tile costs $\$2.50/\text{ft}^2$, stone costs $\$6/\text{kg}$ and the budget for the mosaic is $\$150$.

