6.10b Do Now: Graphing, perpendicular and parallel slopes

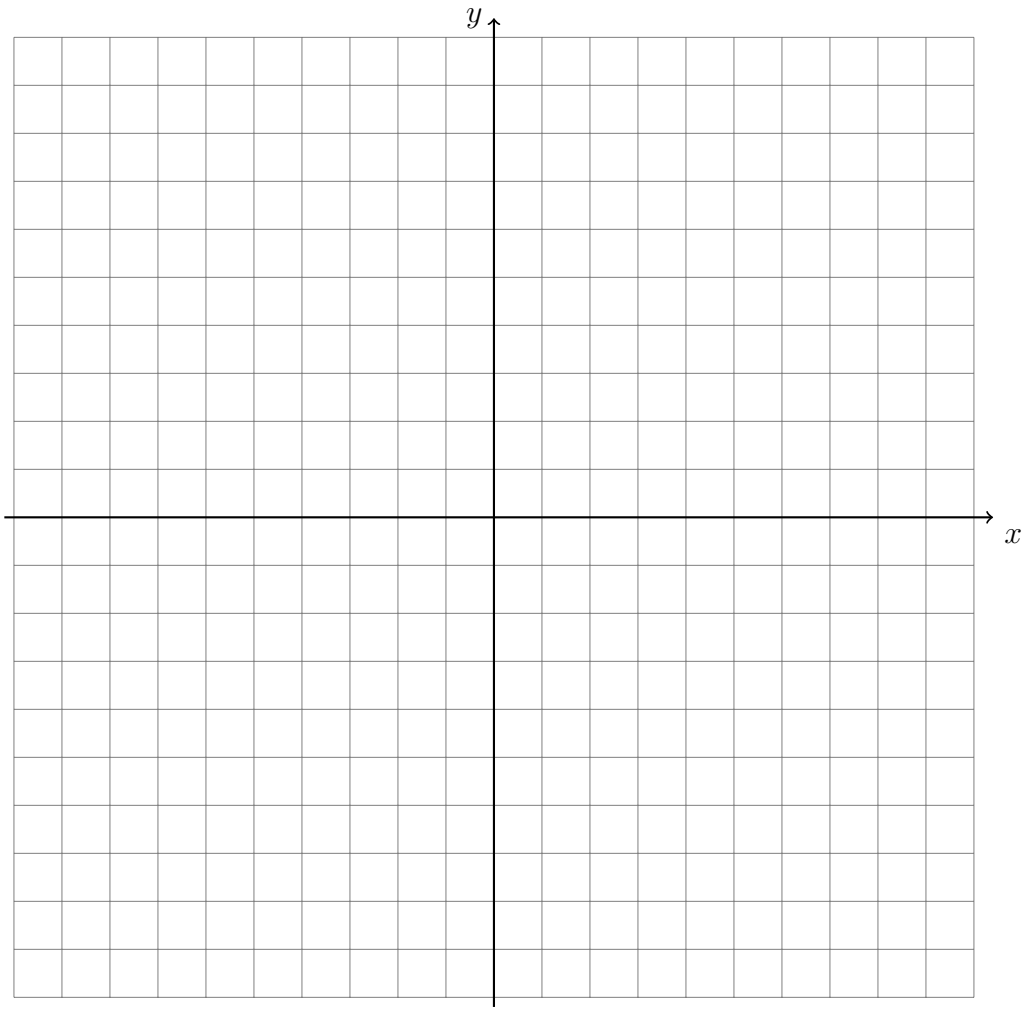
1. Checklist:

   ☐ I used a straight edge to make the lines
   ☐ I labeled each line with its original equation
   ☐ I labeled the intersection as an ordered pair
   ☐ I answered the question, explained, and wrote down the two slopes

   Graph and label the two equations. Mark their intersection as an ordered pair.

   $y = \frac{2}{3}x + 1$ $y = \frac{2}{3}x - 4$

   Are the lines parallel, perpendicular, or neither? Justify your answer.

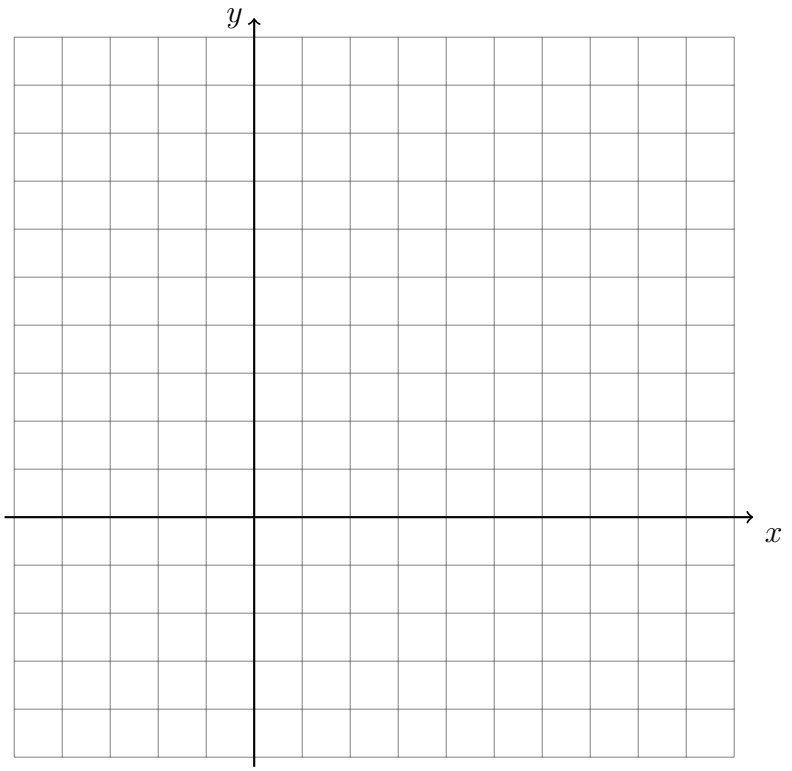


2. Graph and label the two equations. Mark their intersection as an ordered pair.

   $y = \frac{1}{2}x + 3$

   $y = -2x + 8$

   Are the lines parallel, perpendicular, or neither? Justify your answer.



3. Apply a dilation mapping $\triangle ABC \rightarrow \triangle A'B'C'$ with a factor of $k = 2$ on the grid, labeling the image.