

6-10bDN-Graphing

1. Checklist:

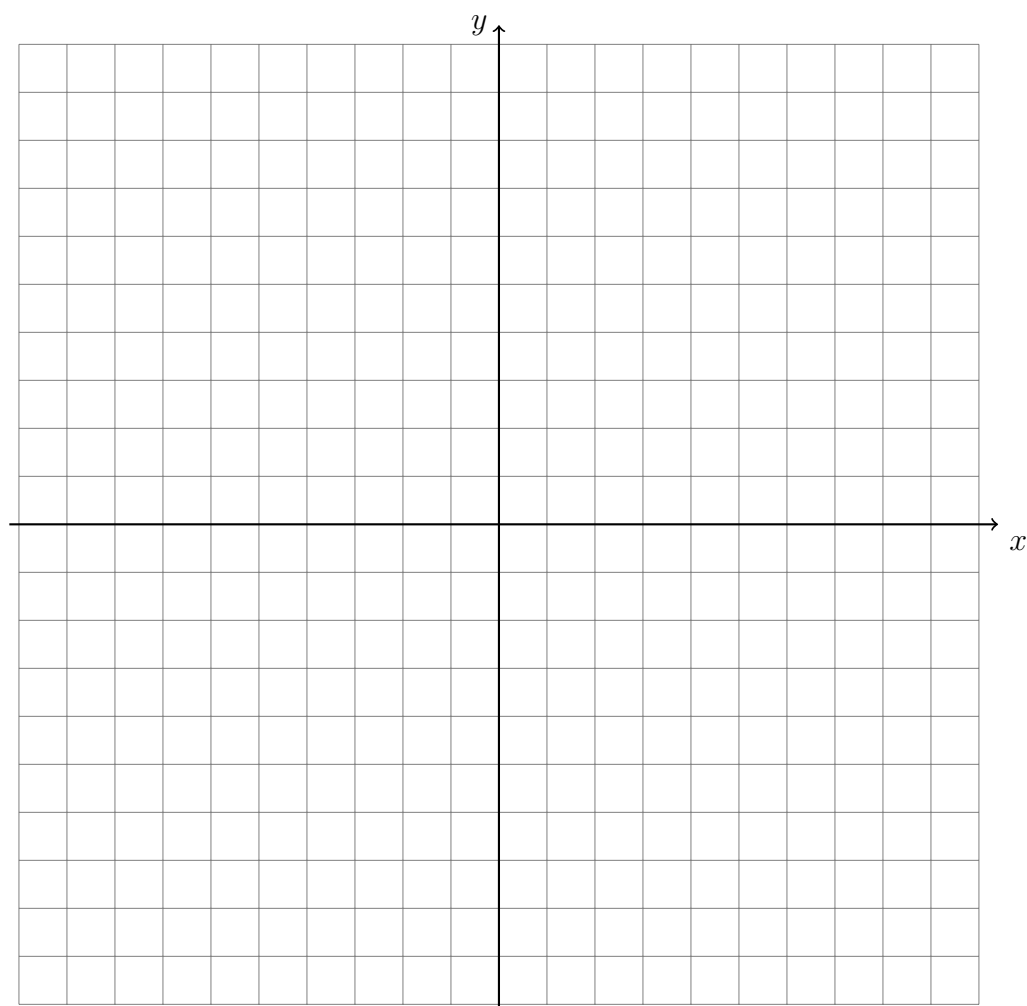
- ☐ I used a straight edge to make the lines
- ☐ I labeled each line with its original equation
- ☐ I labeled the intersection as an ordered pair
- ☐ I answered the question, explained, and wrote down the two slopes

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.

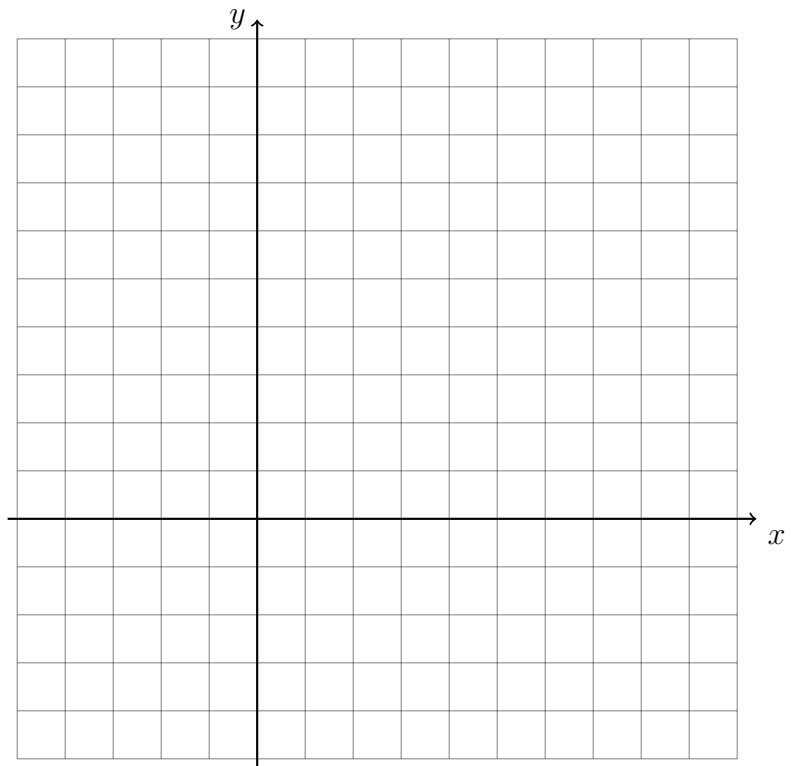


2. Graph and label the two equations. Mark their intersection as an ordered pair.

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

$$y = -2x + 8$$

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.

