

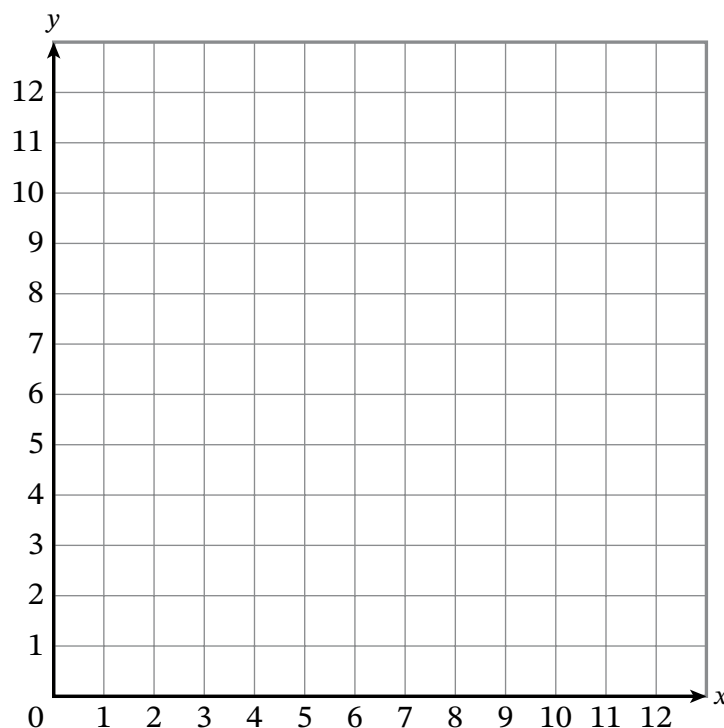


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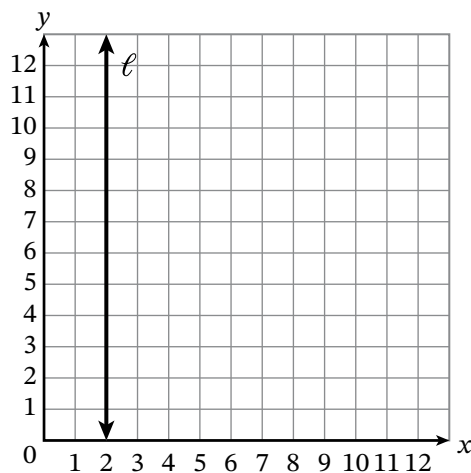
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1. Use the coordinate plane to complete parts (a)–(h).

- a. Draw and label point A at $(8, 1)$.
- b. Draw a line that is perpendicular to the x -axis through point A . Label the line m .
- c. Plot a point on line m that is 6 units farther from the x -axis than point A . Label this point B and write its ordered pair next to it.
- d. Plot a point on line m that is halfway between points A and B . Label this point C and write its ordered pair next to it.
- e. Draw line n so that it is 2 units from the x -axis and $n \perp m$.
- f. Point E is on line n . It is 2 units from the y -axis. Plot point E and write its ordered pair next to it.
- g. Draw line ℓ so that it passes through point E and $\ell \parallel m$.
- h. Point F is on line ℓ and is farther from the x -axis than point E . Plot point F and write its ordered pair next to it.



2. The graph shows line ℓ .



- Use red to color the region of the plane in which all x -coordinates are less than 2.
- Line m is a vertical line that intersects the x -axis at the point $(8, 0)$. Draw and label line m on the graph.
- Use blue to shade the region of the plane where points are more than 8 units from the y -axis.
- Use green to shade the region of the plane with points that have x -coordinates that are greater than 2 and less than 8.