Investigating Parallel Lines

1) Investigate if the lines are parallel and justify your answer.

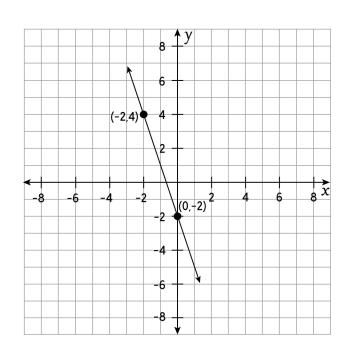
a \longleftrightarrow 108°

Parallel / Not parallel? Theorem used

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- ② a Are y = -7x + 9 and y = -7x 8 parallel to each other? Yes or No Reason
 - b Are $y = \frac{7}{2}x + 1$ and $y = \frac{2}{7}x \frac{2}{7}$ parallel to each other? Yes or No Reason -
- 3 Draw a line passing through the points (1,1), (2,-2) and parallel to the given one on the graph. (-2, 4), and (0, -2) are 2 points on the given line. Check if the lines are parallel and circle your answer.

Investigate:



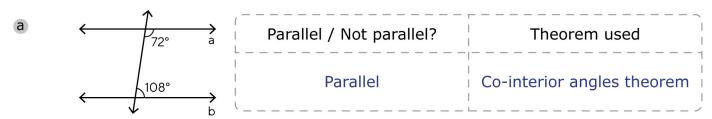
Answer:

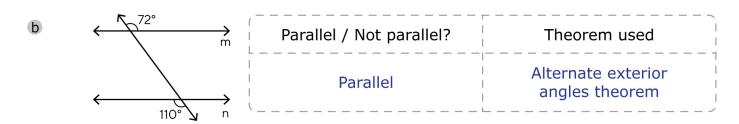


Investigating Parallel Lines

Answers

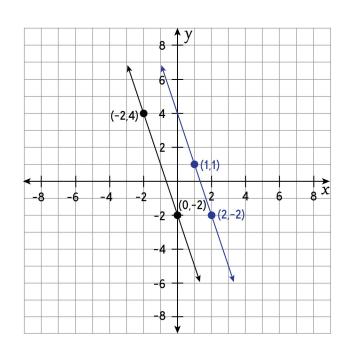
1 Investigate if the lines are parallel and justify your answer.





- ② a Are y = -7x + 9 and y = -7x 8 parallel to each other? Yes or No Reason Same slope
 - b Are $y = \frac{7}{2}x + 1$ and $y = \frac{2}{7}x \frac{2}{7}$ parallel to each other? Yes or No Reason Different slopes
- 3 Draw a line passing through the points (1,1), (2,-2) and parallel to the given one on the graph. (-2, 4), and (0, -2) are 2 points on the given line. Check if the lines are parallel and circle your answer.

Investigate:



Answer:

(Yes) or No