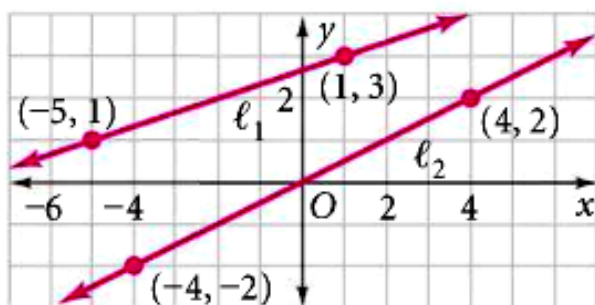


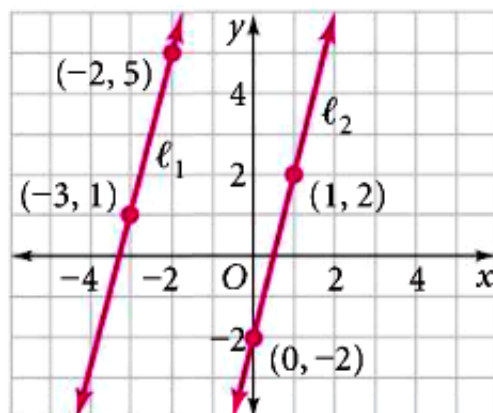
Name: _____ Dat: _____ Per: _____

In Exercises , are lines ℓ_1 and ℓ_2 parallel? Explain, using slope.

1.



2.



Are the lines parallel? Explain.

3. $y = \frac{3}{4}x - 10$
 $y = \frac{3}{4}x + 2$

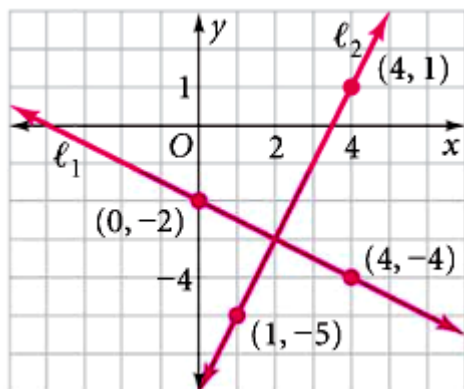
4. $3x + 4y = 12$
 $6x + 2y = 6$

Write an equation for the line parallel to \overleftrightarrow{AB} that contains point C .

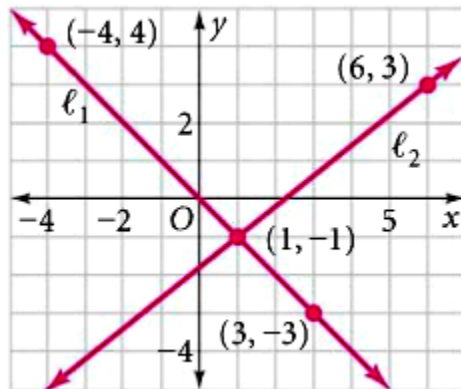
5. $\overleftrightarrow{AB}: y = -2x + 1, C(0, 3)$

Are lines ℓ_1 and ℓ_2 perpendicular? Explain using slope.

6.



7.



Write an equation for the line perpendicular to \overleftrightarrow{MN} that contains point P .

8. $\overleftrightarrow{MN}: y = \frac{1}{2}x - 5, P(4, 0)$

9. **Multiple Choice** Which line is perpendicular to $3y + 2x = 12$?

☐ A $6x - 4y = 24$

☐ C $2x + 3y = 6$

☐ B $y + 3x = -2$

☐ D $y = -2x + 6$

10.

What is the slope of the graph at the right?

☐ A $-\frac{5}{3}$

☐ B $-\frac{3}{5}$

☐ C $\frac{3}{5}$

☐ D $\frac{5}{3}$

