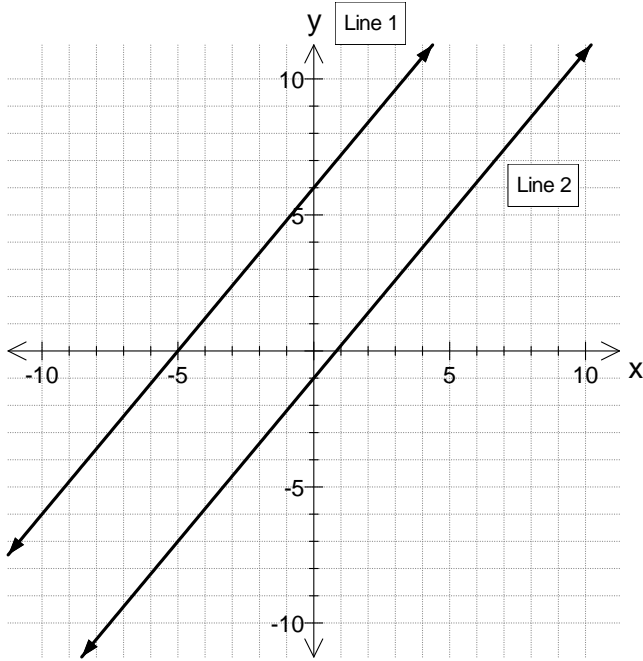


FPC-10

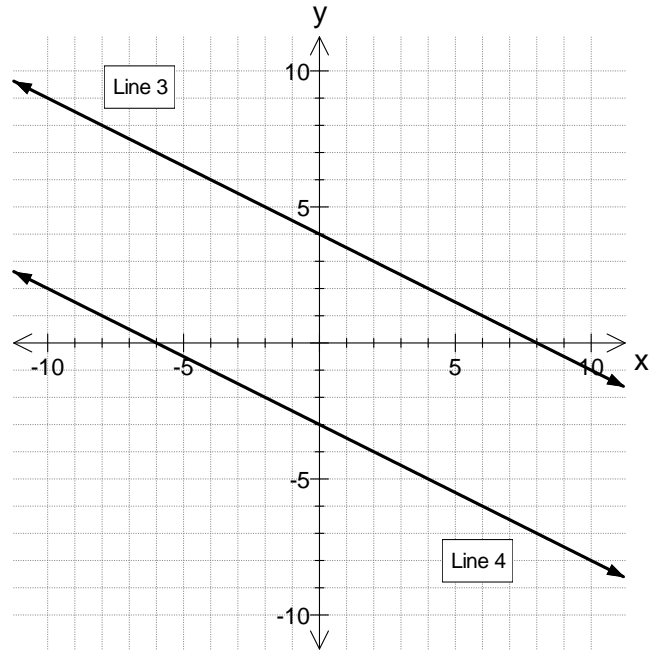
5.4 - Parallel and Perpendicular Lines

1.



Slope $L_1 =$

Slope $L_2 =$

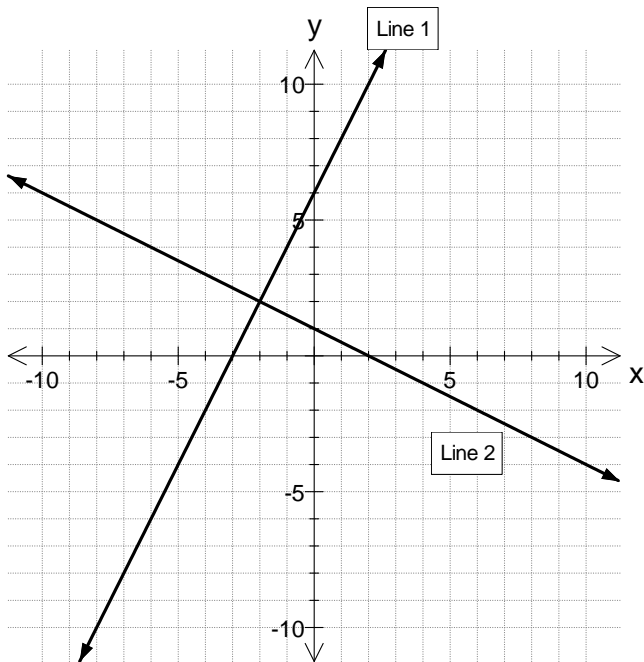


Slope $L_3 =$

Slope $L_4 =$

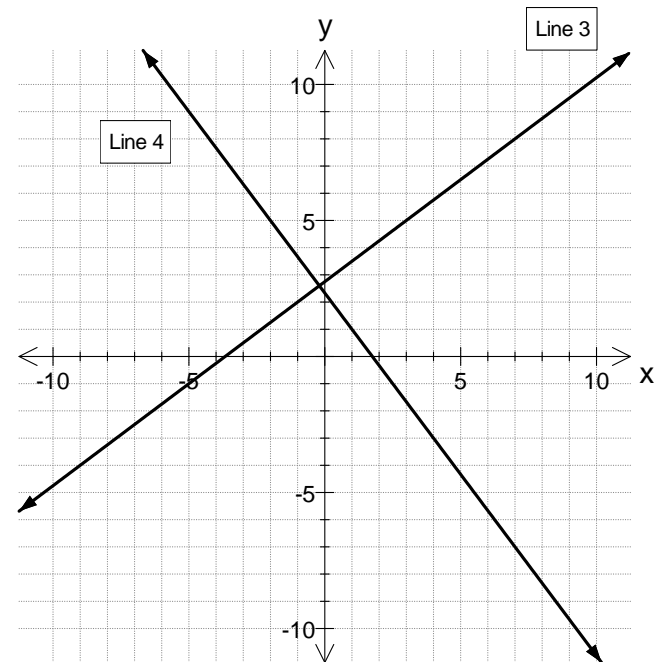
Conclusion: If $line_1$ is PARALLEL to $line_2$ then _____

2.



Slope $L_1 =$

Slope $L_2 =$



Slope $L_3 =$

Slope $L_4 =$

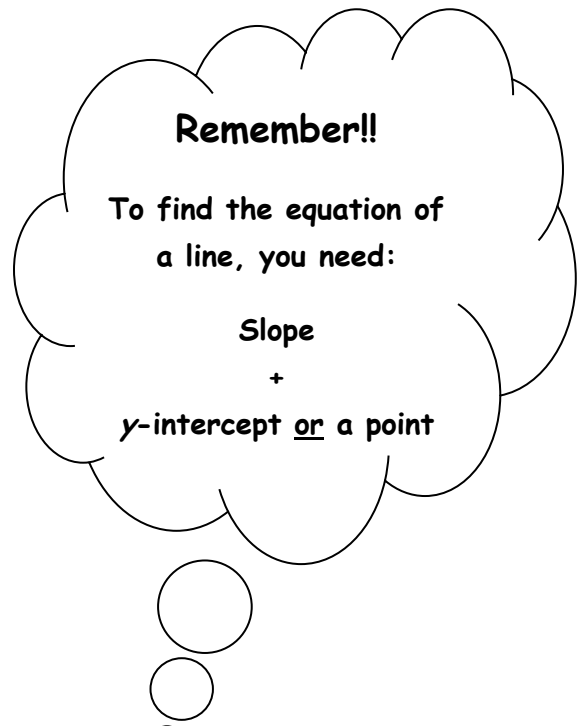
Conclusion: If $line_1$ is PERPENDICULAR to $line_2$ then _____

OR

Examples

1. Complete the following table.

Slope of line 1	Slope of line parallel to line 1	Slope of line perpendicular to line 1
$\frac{1}{2}$		
$-\frac{3}{4}$		
5		
0.5		
-1.6		



2. Find the equation of a line parallel to $y = \frac{2}{3}x - 3$ and passing through the point $(2, 3)$.

3. Two perpendicular lines intersect on the y -axis. The equation of one of the lines is $y = 2x + 4$. Find the equation of the second line.