## Parallel and Perpendicular Lines



Determine if the following lines are parallel, perpendicular, or neither.



Slope of L1: $m = \frac{41}{5 - 3} = \frac{5}{2}$ Slope of L2: $m = \frac{12}{41} = \frac{3}{5}$	$L_1$ through (5, 4) and (3, -1) and $L_2$ through (4, 1) and (-1, -2)	1		1	¢Υ	1		
Slope of L2: $m = \frac{12}{41} = \frac{3}{5}$	Slope of <i>L</i> 1: $m = \frac{41}{5 - 3} = \frac{5}{2}$							
	Slope of L2: $m = \frac{12}{41} = \frac{3}{5}$		_					×
	Lland L2 are			-	F			

L1through (-2, 1) and (1, 5) and L2through (-1, -1) and (-5, 2)				4	Υ			
Slope of <i>L</i> 1: $m = \frac{1-5}{-2-1} = \frac{-4}{-3} = \frac{4}{3}$	-		+					_
Slope of L2:							;	×
$m = \frac{-1-2}{-1-5} = \frac{-3}{4} = -\frac{3}{4}$	-							_
L1and L2 are	-							_