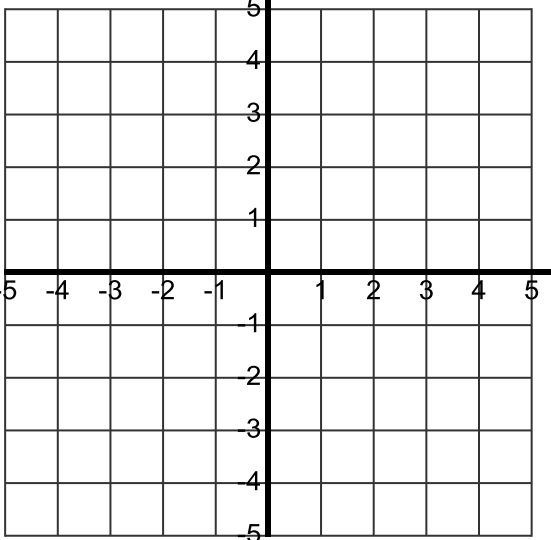
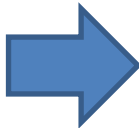
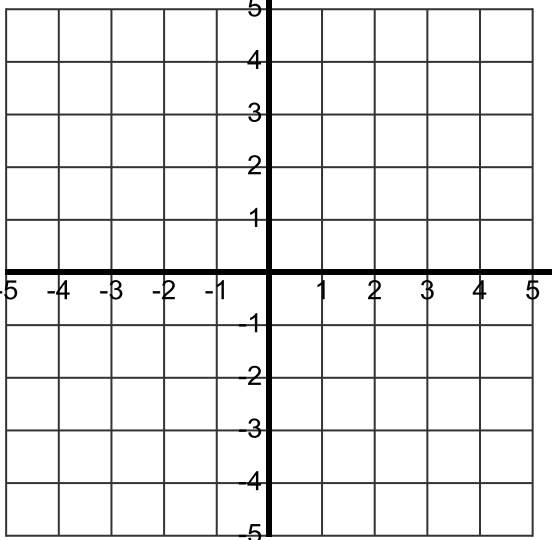


**Goal: Write the equation of a parallel or perpendicular line through a given point (graph paper provided)**

**Directions: 1) Graph YOUR line on both grids (you must plot all of the “nice” points using slope)**

**2) Plot YOUR point on both grids (use color to emphasize this point)**

**3) Plot THE PARALLEL LINE that passes through YOUR point ONLY ON THE GRID ON THE RIGHT**

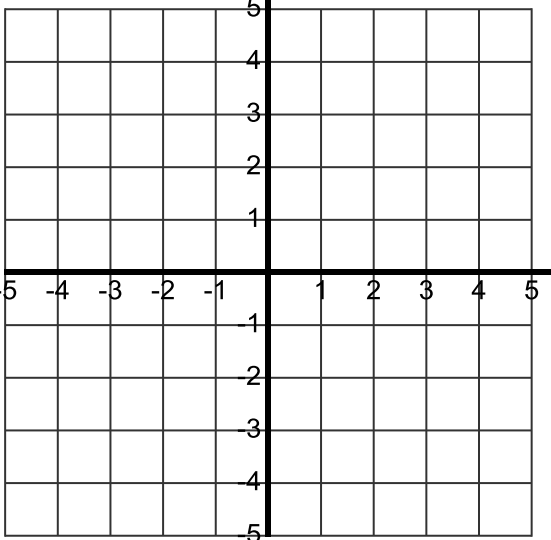
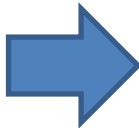
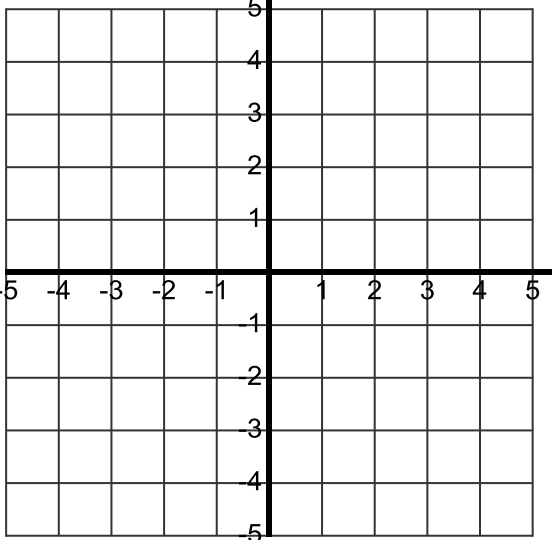
YOUR LINE	YOUR POINT (                      ,                      )	THE line PARALLEL TO YOUR LINE and THROUGH YOUR POINT
		
<p><b>4) Provide ALGEBRAIC SUPPORT for the equation of the PARALLEL line through YOUR POINT using slope intercept form of the line</b> <b>Note: <math>y = mx + b</math> is slope intercept form of the line</b></p>		<p><b>5) Provide ALGEBRAIC SUPPORT for the equation of the PARALLEL line through YOUR POINT using slope intercept form of the line using “modified” point slope form</b> <b>Note: <math>y = m(x - x_1) + y_1</math> is modified point slope form of the line</b></p>

**Goal: Write the equation of a parallel or perpendicular line through a given point (graph paper provided)**

**Directions: 1) Graph YOUR line on both grids (you must plot all of the “nice” points using slope)**

**2) Plot YOUR point on both grids (use color to emphasize this point)**

**3) Plot THE PERPENDICULAR LINE that passes through YOUR point ONLY ON THE GRID ON THE RIGHT**

YOUR LINE	YOUR POINT (                      ,                      )	THE line <b>PERPENDICULAR</b> TO YOUR LINE and THROUGH YOUR POINT
		
<p><b>4) Provide ALGEBRAIC SUPPORT for the equation of the PERPENDICULAR line through YOUR POINT using slope intercept form of the line</b> <b>Note: <math>y = mx + b</math> is slope intercept form of the line</b></p>		<p><b>5) Provide ALGEBRAIC SUPPORT for the equation of the PERPENDICULAR line through YOUR POINT using slope intercept form of the line using “modified” point slope form</b> <b>Note: <math>y = m(x - x_1) + y_1</math> is modified point slope form of the line</b></p>