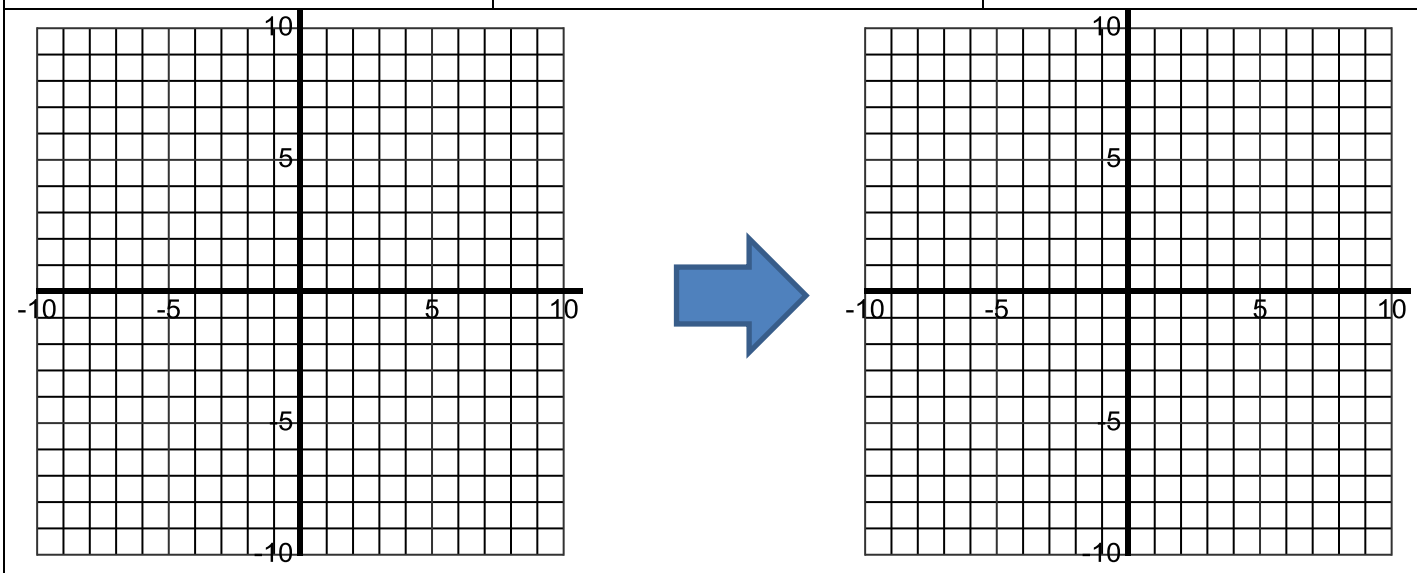
Goal: Write the equation of a parallel or perpendicular line through a given point (graph paper provided)

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



4) Provide ALGEBRAIC SUPPORT for the equation of the PARALLEL line through YOUR POINT using slope intercept form of the line
Note:y =mx+b is slope intercept form of the line

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
Note: $y = m(x - x_1) + y_1$ ***is modified point slope form of the line***

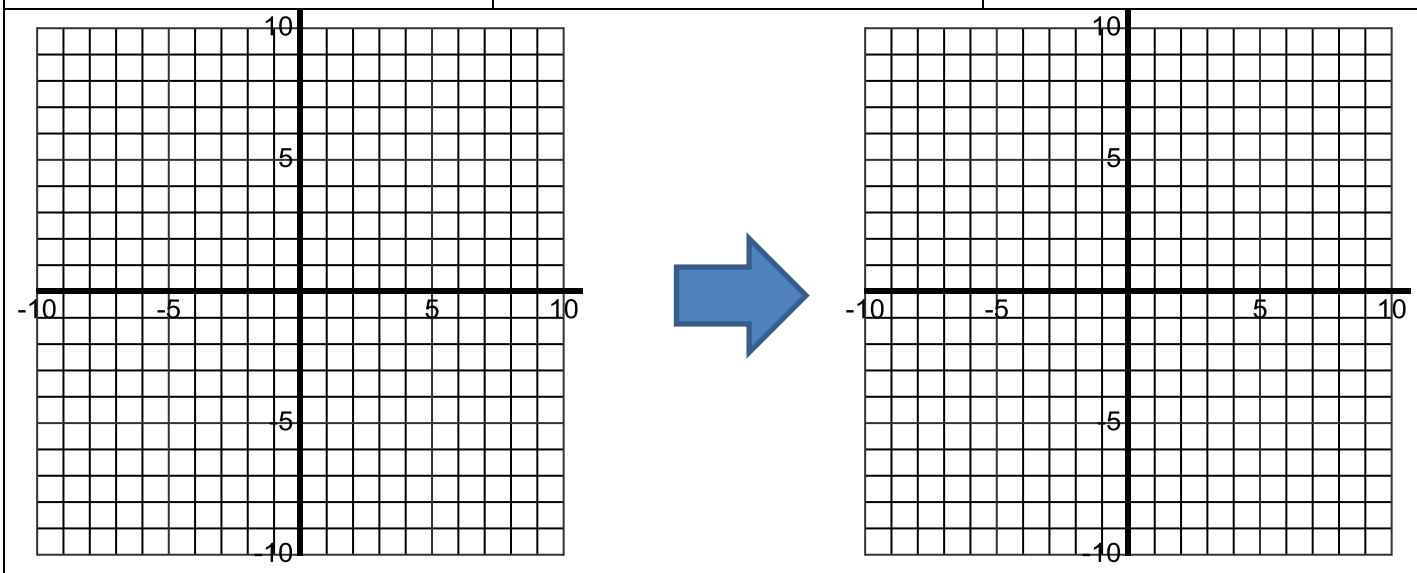
Goal: Write the equation of a parallel or perpendicular line through a given point (graph paper provided)

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 ***PERPENDICULAR*** TO YOUR LINE and THROUGH YOUR POINT



4) Provide ALGEBRAIC SUPPORT for the equation of the PERPENDICULAR line through YOUR POINT using slope intercept form of the line ***Note:y =mx+b is slope intercept form of the line***	***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*** ***Note:*** $y = m(x - x_1) + y_1$ ***is modified point slope form of the line***