

Stained Glass Window Project

Name _____

You must determine 12 equations of lines with the following criteria:

PART 1 3 lines must have <ul style="list-style-type: none"> • 0 slope • At least one line must be above the x-axis • At least one line must be below the x-axis • The equations may NOT equal ZERO 	PART 2 3 lines must have: <ul style="list-style-type: none"> • No/undefined slope • At least one line must be to the left of the y-axis • At least one line must be to the right of the y-axis • The equations may NOT equal ZERO
PART 3 3 lines must have: <ul style="list-style-type: none"> • 3 different positive slopes (at least one fraction) • 3 different y-intercepts • Slopes cannot all be whole numbers 	PART 4 3 lines must have: <ul style="list-style-type: none"> • 3 different negative slope (at least one fraction) • 3 different y-intercepts • Slopes cannot all be integers

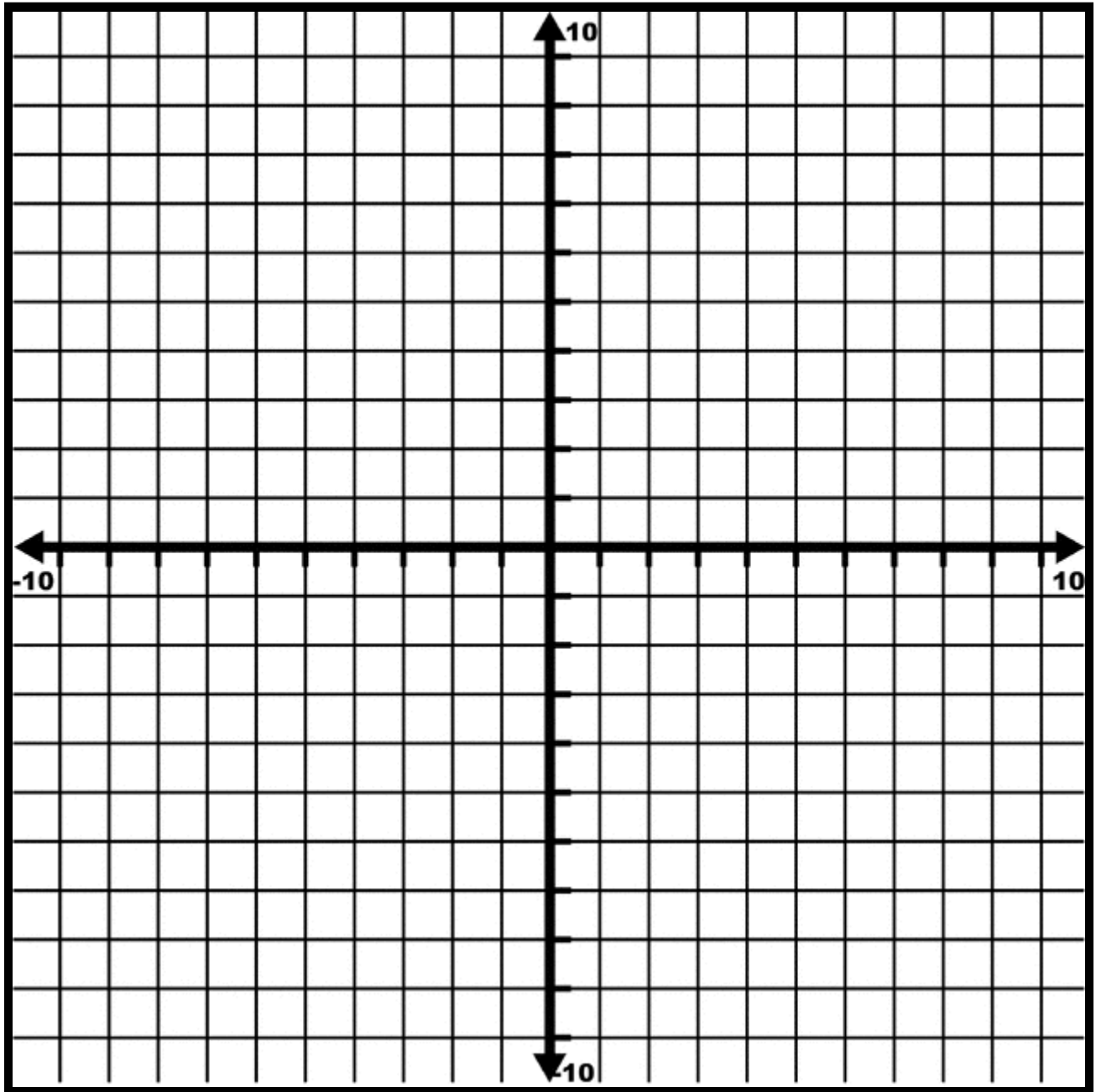
Write each of the equations on the lines below. Identify the slope and y-intercept for each equation. Then graph these equations on the coordinate plane provided. Write the equation neatly on each line that you graph. When you are done graphing the equations, use marker to color each section and create your stained glass window.

PART 1	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____
PART 2	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____
PART 3	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____
PART 4	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____	Equation: _____ Slope = _____ Y-intercept = _____

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On the coordinate plane below, graph the linear equations you created. Use the slope and y-intercept you listed for each equation to graph it. Write the equation neatly on each line that you graph. When you are finished graphing the equations, use markers to color each section to create your stained glass window.



STAINED GLASS WINDOW PROJECT RUBRIC

	POINTS
PART 1 3 lines must have <ul style="list-style-type: none"> • 0 slope • At least one line must be above the x-axis • At least one line must be below the x-axis • The equations may NOT equal ZERO • Slope and y-intercepts are identified 	3 points _____
PART 2 3 lines must have: <ul style="list-style-type: none"> • No/undefined slope • At least one line must be to the left of the y-axis • At least one line must be to the right of the y-axis • The equations may NOT equal ZERO • Slope and y-intercept are identified 	3 points _____
PART 3 3 lines must have: <ul style="list-style-type: none"> • 3 different positive slopes (at least one fraction) • 3 different y-intercepts • Slopes cannot all be whole numbers • Slope and y-intercept are identified 	3 points _____
PART 4 3 lines must have: <ul style="list-style-type: none"> • 3 different negative slope (at least one fraction) • 3 different y-intercepts • Slopes cannot all be integers • Slope and y-intercept are identified 	3 points _____
Lines are graphed on coordinate plane using a straight edge accurately	2 points _____
Equations of lines are visible on the coordinate plane	2 Points _____
Project is neat and colored	4 Points _____
TOTAL = _____ / 20 = _____ %	