

INTERMEDIATE ALGEBRA: STAINED GLASS LINEAR EQUATIONS PERFORMANCE TASK

1. Draw 4 horizontal lines on your coordinate plane and label them 1-4. Write the equation of the line on the "work page" in the appropriate box.
2. Draw 4 Vertical lines on your coordinate plane and label them 5-8. Write the equation of the line on the "work page" in the appropriate box.
3. Pick 4 lines from Section A.
 - a. Copy what is written below for that line into boxes 9-12 on the "work page" (one in each box).
 - b. Identify the slope and y-intercept on the "work page".
 - c. Graph the line.
 - d. Label it with the correct number.
 - e. Finally, write the equation in Standard Form in the box on the work page (show all work).
4. Follow step 3 for Section B to complete lines 13-16.
5. Color the sections that have been created to look like a stained glass window.
6. The completed project should have your "Stained Glass" with 16 lines labeled 1-16. The slope, y-intercept, and equation for each of those lines in standard form should be in the 16 boxes on the work page

SECTION A

Identify the slope and the y-intercept for each problem. You will need to show your process on a separate sheet of paper. Then graph your line on the paper provided.

1. $y = \frac{5}{8}x - 4$

2. $(0,3)$ and $(5,1)$

3. $m = 1/5, (-10, -17)$

4. $y - 10 = \frac{2}{7}x$

5. $m = -3/2, b = 11$

6. $y + 12 = \frac{8}{3}(x + 3)$

7. $m = -4/5, (6, -15)$

8. $(-7, 9)$ and $(13, 6)$

9. $y + 3 = -5(x - 3)$

10. $y = \frac{1}{6}x - 7$

SECTION B

Use the information given to graph each problem. You will need to show your process step by step on a separate sheet of paper. Then graph your line on the paper provided.

1. $m = -1/3, b = -2$

2. $y = x + 6$

3. $y = \frac{5}{4}x - 8$

4. $y = -x + 7$

5. $y = 5x - 4$

6. $y + 11 = \frac{-1}{8}(x + 8)$

7. $(-2, 19)$ and $(-1, 14)$

8. $(-13, 4)$ and $(7, 10)$

9. $y = \frac{-2}{7}x + 7$

10. $m = 1/3, b = -9$

INTERMEDIATE ALGEBRA: STAINED GLASS LINEAR EQUATIONS PERFORMANCE TASK

Intermediate Algebra

Name: _____

Linear Equation Stained Glass

Date: _____ Per: _____

1	2
3	4
5	6
7	8

INTERMEDIATE ALGEBRA: STAINED GLASS LINEAR EQUATIONS PERFORMANCE TASK

9	10
11	12
13	14
15	16