

Stained Glass Window

Graph each linear equation on one coordinate plane. Make sure to graph each line completely to the edges of the paper. When you are finished graphing all the equations, neatly color in the sections to create a stained glass window design.

1. $y = -\frac{1}{2}x - 4$

2. $-3x + 2y = 24$

3. $y = 12$

4. $x = 8$

5. $y = \frac{3}{2}x - 12$

6. $y - 12 = -\frac{3}{4}(x + 16)$

7. $y - 7 = \frac{1}{2}(x - 6)$

8. $x = -8$

9. $-x + 2y = -8$

10. $y + 15 = \frac{3}{4}(x + 20)$

11. $y = -12$

12. $x + 2y = 8$

13. $y = -\frac{3}{2}x + 12$

14. $y + 18 = -\frac{3}{2}(x - 4)$

You will be graded on the following:

1. Accuracy of graphing.
2. Neatness of your coloring, graphing, and setup of your coordinate plane.
3. Creativity of your color scheme.

