

Midterm Review: Lines and Slopes Practice

Name_____

1. Write the equation of the line that is parallel to the graph of $y = \frac{1}{2}x + 6$, and whose y-intercept is -2.
2. Write the equation of the line that is parallel to the graph of $y = -4x - 9$, and whose y-intercept is 3.
3. Write the equation of the line that is parallel to the graph of $3x - y = 5$, and whose y-intercept is (0, -7).
4. Write the equation of the line that is parallel to the graph of $2x + y = 5$, and whose y-intercept is (0, 4).
5. Write the equation of the line that is perpendicular to the graph of $y = \frac{1}{2}x + 6$, and whose y-intercept is (0, -2).
6. Write the equation of the line that is perpendicular to the graph of $y = -4x - 9$, and whose y-intercept is (0, 3).
7. Write the equation of the line that is perpendicular to the graph of $3x - y = 5$, and whose y-intercept is -7.

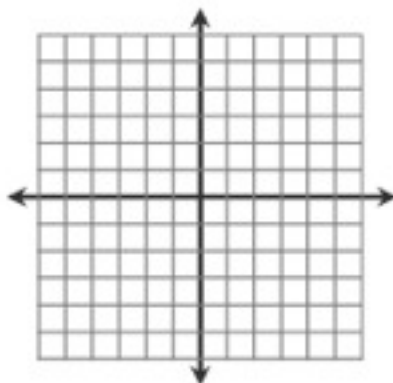
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8. Graph the lines below. Then decide if they are parallel, perpendicular, coincident, or intersecting.

$$y = -2x + 3$$

$$2x - 4y = 8$$

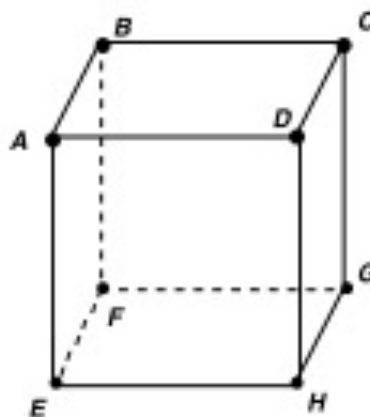


9. Use the diagram at the right to name

a pair of skew lines:

a pair of parallel lines:

a pair of perpendicular lines:



10. The lines $y = 7$ and $y = -4$ are _____.

11. The lines $x = -8$ and $y = 5$ are _____.