## Equation of a Line

1. Write an equation of a line that passes through the points (2, 3) and (-1, 6).

2. Which equation represents the perpendicular bisector of  $\overline{AB}$  whose endpoints are A(8,2) and B(0,6)?

3. Write an equation of a line that passes through the point (1, -4) and is parallel to the line with equation 2x + 2y = 4.

4. Write an equation of a neithat is perpendicular to y = 2x + 5 and passes through the point ( , C ).

5. Line  $\ell$  passes through the point (5,3) and is parallel to line k whose equation is 5x + y = 6. Write an equation for line  $\ell$ 

6. The equation of line l : y + 1 = 5x. Write the equation of the image of l after a dilation with a scale l ictor of 2, centered at the origin.

7. What is an equation of the image of a line with equation 4x - 2y = 6 that is rotated 90 degrees counterclockwise about the origin?

8. If the line with equation 3(x-2) = 6y is translated along the vector <2, -1>, write an equation to represent the new image.

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