

**Geometry**

Algebra Review Semester 2 Week 6

Name \_\_\_\_\_ Per \_\_\_\_\_  
Semester 2

Solve for the given variable.

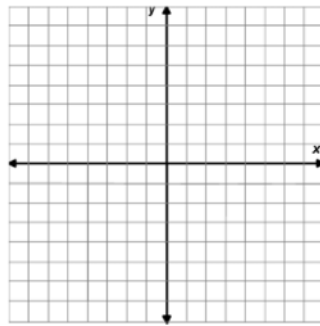
1. 
$$\frac{8}{5x-2} = \frac{-5}{2x-9}$$

2. In standard form,

Write the equation of the line  
passing through the points  
(2, 1) and (-5, -3).

Graph

3.  $x - 3y = 12$



4. Simplify 
$$\frac{x^2+3x}{8} \div \frac{3x^2+8x-3}{9x^2-6x+1}$$

5. Solve the system of equations.

$$3x + 2y = 16$$

$$y = 2x + 1$$

6. Use factoring and the **zero-product**  
property to find the solutions to the  
equation:

$$3x^2 + 2x - 8 = 0$$