

Geometry

Algebra Review Week 6

Name _____ Per _____

Semester 1

SHOW ALL WORK!

Factor completely:

1. $3b^2 - 2b - 5$

2. $2x^2 + 3x - 9$

3. $3n^2 - 8n + 4$

Simplify:

4. $\frac{x^2-9}{12} \cdot \frac{36}{x+3}$

5. $\frac{x^2+10x+16}{x^2+6x+8} \div \frac{1}{x+4}$

Find the solution to the system of equations.

6. $x = 7 - 3y$
 $x + 2y = 10$

7. $5x + y = 9$
 $10x - 7y = -18$

Solve for the given variable.

8. $11 - (c + 2) = 2c - 3(2c - 1)$

Multiply

9. $(2x^2 - 3y)^2$

Graph the solutions to:

10. $3x - 2y > 6$

11. $2x - y \leq 5$

