

ALGEBRA

Name _____

Final REVIEW Questions #2

Simplify or solve:

1. $\frac{3}{4} = \frac{7}{x-5}$

5. $3x^2 + 2x - 8 = 0$

9. $(3x - 5)^2$

2. $|3x - 8| = -2$

6. $\frac{4x-12}{x^2-9}$

10. $\frac{(9 \times 10^{-3})}{(12 \times 10^{-8})}$

3. $|x + 2| - 3 < 9$

7. $\frac{5x^2+10x-40}{3x^3+9x^2-12x}$

11. $(-4nx^3)(-8n^6x^{-2})$

4. $2x^2 - 14x + 24 = 0$

8. $4x^2 + 20 = 69$

12. Identify domain and range: $y = \sqrt{2x - 10} + 8$

13. Graph: $y = |x + 2| - 3$ and identify domain and range.

14. Determine the number of solutions to: $x^2 - 2x + 8 = 0$