

Accelerated Geom/Alg 2
Solving Rational Equations Practice

Name _____

Date _____ Block _____

Solve for x and check for extraneous solutions.

1. $\frac{3x}{x-2} + \frac{1}{x+2} = \frac{-4}{x^2-4}$

1. _____

2. $\frac{5}{2x+3} + \frac{4}{2x-3} = \frac{14x+3}{4x^2-9}$

2. _____

3. $\frac{3x-1}{x-2} + 3 = \frac{x}{x-2}$

3. _____

4. $\frac{x+1}{x+3} = 2$

4. _____

$$5. \frac{2x}{5} = \frac{x^2-2x}{5x}$$

5. _____

$$6. \frac{3}{x} + 12 = 2 + \frac{4}{3x}$$

6. _____

$$7. \frac{3}{x-8} - \frac{4}{x-2} = \frac{28}{x^2-10x+16}$$

7. _____

$$8. \frac{5x+2}{10x-3} = \frac{x-8}{2x+3}$$

8. _____

$$9. \frac{2x}{x-2} - \frac{4x-1}{3x+2} = \frac{17x+4}{3x^2-4x-4}$$

9. _____