

Algebra 2

Writing Assignment: Solving Rational Functions

5 points each

Total Points: 50

Solve for x. Show all work and check your answers.

$$1. \frac{2}{x} + \frac{3}{5} = \frac{22}{5x}$$

$$2. \frac{3}{x-2} + \frac{4}{5} = \frac{27}{5(x-2)}$$

$$3. \frac{x}{4} - \frac{2}{3} = \frac{7}{12}$$

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

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

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

$$7. \frac{1}{x^2 - 7x + 10} = \frac{x}{x-5} + \frac{1}{x-2}$$

$$8. \frac{4}{6-x} + \frac{x^2}{6-x} = 2$$

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

$$10. \frac{2}{x+2} + \frac{1}{x-2} = \frac{13}{21}$$