

2.5 Equation Solving

Name _____

Solve for x .

1.
$$\frac{3}{x} - \frac{4}{x} + \frac{5}{x} = 2$$

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

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

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

Answers: 1. $\{2\}$; 3. \emptyset

Solve for x .

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

6.
$$\frac{5-x}{x^2-1} + \frac{7}{x+1} = \frac{6}{x}$$

7.
$$\frac{4x-1}{x^2+5x-14} = \frac{1}{x-2} - \frac{2}{x+7}$$

8.
$$\frac{x}{x-1} - \frac{1}{x-4} = -\frac{3}{x^2-5x+4}$$

Answers: 5. $\frac{11}{5}$; 7. $\frac{12}{5}$