

## Systems of Equations

Use the best method to solve each system of equations.

$$1) \quad 4 = -\frac{5}{a} + \frac{4}{b}$$

$$\frac{7}{a} - \frac{4}{b} = -6$$

$$2) \quad \frac{6}{s} + \frac{5}{t} - 10 = 0$$

$$\frac{3}{t} + \frac{2}{s} - 3 = 0$$

$$3) \quad 12 = -\frac{1}{x} + \frac{1}{y}$$

$$\frac{1}{y} + \frac{1}{x} = 10$$

$$5) \quad \frac{2}{c} + \frac{2}{d} = 1$$

$$2 + \frac{1}{c} - \frac{2}{d} = 0$$

$$7) \quad c + b = bc$$

$$3c + b = -bc$$

$$8) \quad -5 = \frac{3}{r} - \frac{4}{s}$$

$$\frac{5}{r} - \frac{8}{s} = -9$$

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## Systems of Equations

Use the best method to solve each system of equations.

$$1) \quad 4 = -\frac{5}{a} + \frac{4}{b}$$

$$\frac{7}{a} - \frac{4}{b} = -6$$

**$(-1, -4)$**

$$2) \quad \frac{6}{s} + \frac{5}{t} - 10 = 0$$

$$\frac{3}{t} + \frac{2}{s} - 3 = 0$$

**$(\frac{8}{15}, -4)$**

$$3) \quad 12 = -\frac{1}{x} + \frac{1}{y}$$

$$\frac{1}{y} + \frac{1}{x} = 10$$

**$(-1, \frac{1}{11})$**

$$5) \quad \frac{2}{c} + \frac{2}{d} = 1$$

$$2 + \frac{1}{c} - \frac{2}{d} = 0$$

**$(-3, \frac{6}{5})$**

$$7) \quad c + b = bc$$

$$3c + b = -bc$$

**$(-1, \frac{1}{2})$  or  $(0, 0)$**

$$8) \quad -5 = \frac{3}{r} - \frac{4}{s}$$

$$\frac{5}{r} - \frac{8}{s} = -9$$

**$(-1, 2)$**

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