

**Systems of Equations**

Use the best method to solve each system of equations.

$$1) \quad \frac{2}{p} + \frac{3}{q} - 2 = 0$$
$$\frac{3}{p} + \frac{2}{q} = 4$$

$$2) \quad 15 - \frac{7}{c} = \frac{5}{d}$$
$$\frac{1}{c} + \frac{1}{d} - 5 = 0$$

$$3) \quad -\frac{5}{a} - \frac{1}{b} = 4$$
$$\frac{1}{b} + \frac{3}{a} = -2$$

$$5) \quad 3v + 5u = uv$$
$$7u + 4v = uv$$

$$7) \quad 10 = \frac{8}{y} + \frac{3}{z}$$
$$\frac{2}{z} + \frac{7}{y} = 5$$

$$8) \quad -\frac{4}{t} - \frac{9}{s} + 25 = 0$$
$$\frac{6}{s} + \frac{5}{t} = 26$$

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**Systems of Equations**

Use the best method to solve each system of equations.

$$1) \quad \frac{2}{p} + \frac{3}{q} - 2 = 0$$

$$\frac{3}{p} + \frac{2}{q} = 4$$

$$\left(\frac{5}{8}, -\frac{5}{2}\right)$$

$$2) \quad 15 - \frac{7}{c} = \frac{5}{d}$$

$$\frac{1}{c} + \frac{1}{d} - 5 = 0$$

$$\left(-\frac{1}{5}, \frac{1}{10}\right)$$

$$3) \quad -\frac{5}{a} - \frac{1}{b} = 4$$

$$\frac{1}{b} + \frac{3}{a} = -2$$

$$(-1, 1)$$

$$5) \quad 3v + 5u = uv$$

$$7u + 4v = uv$$

$$\left(\frac{1}{2}, -1\right) \text{ or } (0, 0)$$

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$$7) \quad 10 = \frac{8}{y} + \frac{3}{z}$$

$$\frac{2}{z} + \frac{7}{y} = 5$$

$$\left(-1, \frac{1}{6}\right)$$

$$8) \quad -\frac{4}{t} - \frac{9}{s} + 25 = 0$$

$$\frac{6}{s} + \frac{5}{t} = 26$$

$$\left(1, \frac{1}{4}\right)$$