

## Systems of Equations

Use the best method to solve each system of equations.

$$1) \quad \frac{5}{x} - \frac{6}{y} + \frac{3}{z} = -3$$

$$\frac{10}{x} - \frac{9}{z} + \frac{4}{y} = -3$$

$$-\frac{5}{x} - \frac{6}{z} + \frac{4}{y} = 1$$

$$2) \quad -8bc + 5ac + 3ab = 39abc$$

$$-2ac = 24abc - 6bc - 7ab$$

$$4bc - 10abc + 4ab = 2ac$$

$$3) \quad 10 = -\frac{9}{t} - \frac{4}{u} - \frac{3}{v}$$

$$\frac{3}{t} = -2 - \frac{5}{v} + \frac{4}{u}$$

$$\frac{1}{t} + \frac{1}{v} = \frac{3}{u} + 17$$

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$$5) \quad \frac{3}{b} + \frac{1}{c} + \frac{2}{d} = -32$$

$$\frac{4}{c} - \frac{5}{d} = -22 - \frac{2}{b}$$

$$\frac{9}{b} - \frac{3}{d} - \frac{7}{c} = -38$$

$$-\frac{7}{r} = -3 + \frac{7}{t}$$

$$-\frac{7}{s} = 45 - \frac{9}{t}$$

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$$-2ac = 24abc - 6bc - 7ab$$

$$4bc - 10abc + 4ab = 2ac$$

$(-5, 2, 3)$

$(0, 0, 0)$

$$3) \quad 10 = -\frac{9}{t} - \frac{4}{u} - \frac{3}{v}$$

$$\frac{3}{t} = -2 - \frac{5}{v} + \frac{4}{u}$$

$$\frac{1}{t} + \frac{1}{v} = \frac{3}{u} + 17$$

$(\frac{1}{5}, -\frac{1}{7}, -)$

)

$$5) \quad \frac{3}{b} + \frac{1}{c} + \frac{2}{d} = -32$$

$$\frac{4}{c} - \frac{5}{d} = -22 - \frac{2}{b}$$

$$\frac{9}{b} - \frac{3}{d} - \frac{7}{c} = -38$$

$$-\frac{7}{r} = -3 + \frac{7}{t}$$

$$-\frac{7}{s} = 45 - \frac{9}{t}$$

$(-\frac{1}{8}, -\frac{1}{4}, -\frac{1}{2})$

$(4, -\frac{1}{6}, 3)$

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