

Systems of Equations

Use the best method to solve each system of equations.

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

$$-14 = \frac{5}{b} + \frac{6}{c} - \frac{4}{d}$$

$$-\frac{1}{b} + \frac{8}{d} = -14$$

$$2) \quad \frac{1}{t} - \frac{2}{u} = -\frac{9}{v} - 13$$

$$-\frac{2}{t} + \frac{6}{v} = -30 - \frac{4}{u}$$

$$-\frac{5}{t} - \frac{8}{u} - \frac{3}{v} - 12 = 0$$

$$3) \quad -3yz - 4xz + 6xy$$

$$xz - 2yz - 5xy = 4$$

$$9yz - xz + xy = -3$$

PREVIEW

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$$5) \quad \frac{8}{p} + \frac{2}{q} = 20 - \frac{5}{r}$$

$$-\frac{4}{p} - \frac{3}{q} + \frac{10}{r} = 0$$

$$-\frac{8}{p} + \frac{5}{q} = \frac{5}{r} + 15$$

$$-\frac{1}{t} = -13 - \frac{1}{u} - \frac{1}{s}$$

$$-\frac{5}{s} + \frac{8}{t} = 21 + \frac{9}{u}$$

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$$-\frac{5}{t} - \frac{8}{u} - \frac{3}{v} - 12 = 0$$

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

PREVIEW

$$\left(\frac{3}{7}\right)$$

$$3) \quad -3yz - 4xz + 6xy$$

$$xz - 2yz - 5xy = 4$$

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$$\left(-\frac{1}{3}, -\frac{1}{6}, -\frac{1}{9}\right)$$

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$$-\frac{5}{s} + \frac{8}{t} = 21 + \frac{9}{u}$$

$$\left(4, \frac{1}{5}, \frac{5}{8}\right)$$

$$\left(-\frac{1}{8}, 1, \frac{1}{3}\right)$$