

S.96

(517)

$$a) \frac{2x + 7}{3} = 1 \quad || \cdot 3$$

$$\frac{3 \cdot (2x + 7)}{3} = 3 \cdot 1$$

$$2x + 7 = 3 \quad || -7$$

$$\frac{2x}{2} = \frac{-4}{2} \quad || : 2$$

$$x = -2$$

$$b) \frac{x + 2}{7} = -4 \quad || \cdot 7$$

$$\frac{7 \cdot (x + 2)}{7} = 7 \cdot (-4)$$

$$x + 2 = -28 \quad || -2$$

$$x = -30$$

$$c) \frac{4 - 2x}{6} = \frac{x}{3} \quad || \cdot 6$$

$$\frac{6 \cdot (4 - 2x)}{6} = \frac{6 \cdot x}{3}$$

$$4 - 2x = 2x \quad || +2x$$

$$\frac{4}{4} = \frac{4x}{4} \quad || : 4$$

$$1 = x$$

$$x = 1$$

$$d) \quad \frac{3y + 1}{8} = \frac{y}{4} \quad \parallel \cdot 8$$

$$\frac{8(3y + 1)}{8} = \frac{8y}{4}$$

$$\cancel{3}y + 1 = \cancel{2}y \quad \parallel - 2y$$

$$y + 1 = 0 \quad \parallel -1$$

$$y = -1$$

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$$a) \quad \frac{3x - 1}{4} = \frac{x + 7}{5} \quad \parallel \cdot 20$$

$$\frac{20(3x - 1)}{4} = \frac{20(x + 7)}{5}$$

$$5(3x - 1) = 4(x + 7)$$

$$\cancel{15}x - 5 = \cancel{4}x + 28 \quad \parallel - 4x$$

$$\parallel x - \cancel{5} = \cancel{28} \quad \parallel + 5$$

$$\frac{\parallel x}{\parallel} = \frac{33}{\parallel} \quad \parallel : \parallel$$

$$x = 3$$

$$b) \quad \frac{y}{3} = \frac{y+4}{5} \quad || \cdot 15$$

$$\frac{15y}{3} = \frac{15(y+4)}{5}$$

$$5y = 3(y+4)$$

$$\cancel{5y} = \cancel{3y} + 12 \quad || -3y$$

$$\frac{2y}{2} = \frac{12}{2} \quad || :2$$

$$y = 6$$

$$c) \quad \frac{y+6}{9} = \frac{y-2}{5} \quad || \cdot 45$$

$$\frac{45(y+6)}{9} = \frac{45(y-2)}{5}$$

$$5(y+6) = 9(y-2)$$

$$\cancel{5y} + 30 = \cancel{9y} - 18 \quad || -9y$$

$$-4y + \cancel{30} = -18 \quad || -30$$

$$\frac{-4y}{-4} = \frac{-48}{-4} \quad || :(-4)$$

$$y = 12$$