

N5.

$$a) \frac{x}{8} = \frac{x-5}{3} \quad | \cdot 24$$

$$3x = 8(x-5)$$

$$3x - 8x = -40$$

$$-5x = -40$$

$$x = 8.$$

$$b) \frac{x+7}{4} = \frac{x+8}{5} \quad | \cdot 20$$

$$5(x+7) = 4(x+8)$$

$$5x + 35 = 4x + 32$$

$$x = -3$$

$$\text{Ans: } x = -3$$

$$c) \frac{x+17}{12} = \frac{x+10}{5} \quad | \cdot 60$$

$$5(x+17) = 12(x+10)$$

$$5x + 85 = 12x + 120$$

$$-7x = 35$$

$$x = -5$$

$$d) \frac{x-2}{9} = \frac{x+3}{14} \quad | \cdot 126$$

$$14(x-2) = 9(x+3)$$

$$14x - 28 = 9x + 27$$

$$5x = 55$$

$$x = 11.$$

$$= \frac{126}{14} \cdot \frac{x-2}{9} = \frac{126}{9} \cdot \frac{x+3}{14}$$