

$$2^{12} \cdot \frac{2^8}{14^8} = 2^{12} \cdot \left(\frac{2^1}{2 \cdot 7} \right)^8 = 2^{12} \cdot 2^{-8} = 2^{12-8} = 2^4$$

$$2) \quad x - 5 = \frac{x}{2} = 21 + \frac{10x}{4} \quad | \cdot 4$$

$$2x - 10 = 42 + 6x$$

$$2x - 6x = 42 - 10$$

$$-4x = 32$$

$$x = -8.$$