

4-2083.

$$\alpha) \alpha_1 = 12, \quad w = 2.$$

$$\alpha_{13} = \alpha_1 + 12w = 12 + 12 \cdot 2 = 24$$

$$\alpha_{25} = \alpha_1 + 24 \cdot w = 12 + 24 \cdot 2 = 60.$$

$$\beta) S_{25} = \frac{25}{2} (12 + 60) = 25 \cdot 36 = 900$$

$$\gamma) S = \alpha_7 + \alpha_8 + \dots + \alpha_n = S_{14} - S_6$$

$$= \frac{14}{2} (2 \cdot 12 + 13 \cdot 2) - \frac{6}{2} (2 \cdot 12 + 5 \cdot 2)$$

$$= 7 \cdot 50 - 3 \cdot 34 = 350 - 102 = 248.$$