G.A. given:
$$U = 0.7 \text{ W./m}^{9} \text{ K}$$

$$\Delta T = 25 \text{ C}$$

$$= 25 + 273.15 = 298.15 \text{ K}$$

$$A = 107.67 \text{ Sg.ft}$$

$$= 107.67 \times 0.093 = 10.0 \text{ m}^{2}$$

$$WKT$$
:
$$Q = U \cdot A \cdot \Delta T$$

$$= 0.7 \times 10.0 \times 298.15$$

$$= 2087.05 W$$

(5) (A) given:
$$A = 20 \text{ sq.m}$$

$$U = 0.5 \text{ W/m}^{2} \text{K}$$

$$\Delta T = 30^{\circ} \text{C}$$

$$= 30 + 273.15 = 303.15 \text{ K}$$

$$W \cdot K \cdot T$$
 $Q = U \cdot A \cdot \Delta T$
= 0:5 x α 0 x 303.15
= 3031.5 W