SHE

$$-200 = 20 - T$$
 $T = 220$

Q R=PA

P= 1.5x10° R = 0.4x10°3

 $R = 1.5 \times 10^{6} \left(\frac{25}{25} \right)^{2}$

P=RJ2 P= (2.98×10⁻⁴)(500×10⁻³)² P= 7.45×10⁻⁵ Watts

$$J = \frac{T}{\pi \left(\frac{0.4}{2}\right)^2}$$

$$J = 3.98 \frac{A}{m^2}$$

(d) 101 = V T V=1.49×10-4 Vots

 $\frac{P_{0}}{R_{0}} = \frac{P_{c}}{R_{1}}$ $R_{f} P_{0} = R_{0} P_{f}$ $R_{f} P_{0} = R_{0} P_{f}$