$V = 10 V$, $I_1 = 50 m A$

$I_2 = 30 m A$

$R = \dfrac{V}{I} = \dfrac{10 \times 10^3}{50}$

$R = 200 \; \Omega$

$V = 200 \times \cdot 03 = 6 v$

change — $4 v$

$R = 3300 \pm 5\%$

$R_{min} = 3135\,\Omega$, $R_{max} = 3465\,\Omega$

$V = 12\,V$

$$I_{min} = \frac{V}{R_{max}} = \frac{12}{3465} = 3.5\,mA$$

$$I_{max} = \frac{V}{R_{min}} = \frac{12}{3135} = 3.8\,mA$$

$V = 12\,V$, $R = 10\,\Omega$

$P = V^2/R = 14.4\,W$

$W = Pt = 14.4 \times 0.03 = 0.48\,wh$

b) will discuss in class