

Q4:

$$G = \frac{G_g + \frac{4595 G_1}{G_{OR}}}{1 + \frac{V_1}{G_{OR}}}$$

$$G = .996$$

$$\begin{array}{r} P_{cv} = 660 \\ + 2.4 \\ - 1.4 \\ \hline 661 \end{array}$$

$$\Delta P = \frac{3(37.5 GH)}{I_t + 4I_1 + I_2}$$

$$\Delta P = 1848.2$$

$$P_s = P_t + \Delta P$$

$$P_s = 4151.4$$

$$\Delta P = \frac{3(37.5 GH)}{I_w + 4I_1 + I_2}$$

$$\Delta P = 1845.2$$

$$P_w = P_s - \Delta P$$

$$P_w = 2306.2$$

$$\begin{array}{l} G_g = .736 \\ G_1 = .7694 \\ G_{OR} = \frac{563,000}{46} = 12,239 \\ V_1 = 741 \end{array}$$

$$\begin{array}{r} T_{cv} = 477 \\ - .6 \\ - 4.2 \\ \hline 472 \end{array}$$

$$\begin{array}{l} 37.5 GH = 453,728 \\ I_t = 112.3 \\ I_1 = 123.8 \\ I_2 = 129.0 \end{array}$$

$$P_t = 2303.2$$

$$\begin{array}{l} 37.5 GH = 453,728 \\ I_w = 112.5 \\ I_1 = 124.0 \\ I_2 = 129.2 \end{array}$$