Chapter 11, Solution 28.

$$\begin{split} V_{rms}^2 &= \frac{1}{5} \bigg[\int_0^2 (4t)^2 \ dt + \int_2^5 0^2 \ dt \ \bigg] \\ V_{rms}^2 &= \frac{1}{5} \cdot \frac{16 \, t^3}{3} \Big|_0^2 = \frac{16}{15} (8) = 8.533 \\ V_{rms} &= \textbf{2.92 V} \end{split}$$

$$P = \frac{V_{rms}^2}{R} = \frac{8.533}{2} = \textbf{4.267 W}$$