

$$2) a) (42.00 \times 1.2344) \times 1600$$

$$= (42.00 \times 1.234) \times 1600$$

$$= 51.828 \times 1600$$

$$= 51.83 \times 1600$$

$$= 82928$$

$$= 8.293 \times 10^4 \Rightarrow \overset{x_c}{\text{Rounded}}$$

$$82951.68$$

\downarrow
 x

$$RRE = \frac{|x_c - x|}{|x|}$$

$$= \frac{|82930 - 82951.68|}{|82951.68|}$$

$$= 0.0002614$$

$$b) 42.00 \times (1.2344 \times 1600)$$

$$= 42.00 \times (1.234 \times 1600)$$

$$= 42.00 \times 1974.4$$

$$= 42.00 \times 1974$$

$$= 82908$$

$$= 8.291 \times 10^4 \Rightarrow \overset{x_c}{\text{rounded}}$$

$$82951.68 \rightarrow x$$

$$RRE = \frac{|82910 - 82951.68|}{|82951.68|}$$

$$= 0.0005025$$