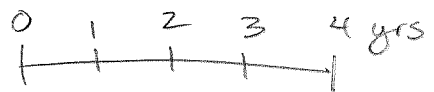


P533 #15 Nelida's car



purchase \$30 000

$$\begin{aligned} \text{future price} &= 30\,000(1.25) \\ &= 37\,500 \end{aligned}$$

30000



future price



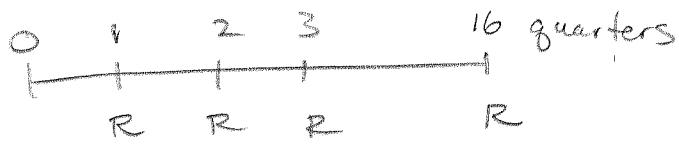
$$\begin{aligned} \text{future (dep) value} &= 30\,000(0.4) \\ &= 12\,000 \end{aligned}$$

$$\begin{aligned} \Delta \text{price} &= 37\,500 - 12\,000 \\ &= 25\,500 \end{aligned}$$

$$\begin{aligned} \Delta P + \text{GST} &= 25\,500(1.07) \\ &= 27\,285 \end{aligned}$$

$$\begin{aligned} \text{PST on new car} &= 37\,500(0.08) \\ &= 3\,000 \end{aligned}$$

$$\begin{array}{r} \text{Final } \Delta P = 27\,285 \\ + 3\,000 \\ \hline 30\,285 \end{array}$$



$$i = 0.08 \frac{.08}{4} = 0.02$$

$$FV = R \left[\frac{(1+i)^n - 1}{i} \right]$$

$$30\,285 = R \left[\frac{(1.02)^{16} - 1}{0.02} \right]$$

$$R = 1624.79$$