

$$a) \quad 60 = 350t - 500t^2$$
$$t = 0.3$$

$$b) \quad 60.25 = 350t - 500t^2$$
$$t = 0.3052$$

$$c) \quad R = -500t^2 + 350t$$

$$\frac{-b}{2a} = \frac{-350}{2(-500)} = \frac{7}{20}$$

$$R\left(\frac{7}{20}\right) = -500\left(\frac{7}{20}\right)^2 + 350\left(\frac{7}{20}\right)$$

$$= \frac{245}{4}$$

$$= 61.25$$