

$$\int_1^4 \{x - 0.4\} dx$$

$$\text{let } x - 0.4 = t$$

$$\Rightarrow \int_{0.6}^{3.6} \{t\} dt = \int_{0.6}^{0.6+3} \{t\} dt \Rightarrow 3 \int_0^1 \{t\} dt$$

$$\Rightarrow 3 \int_0^1 t - [t] dt = 3 \left[\frac{t^2}{2} \right]_0^1$$

$$= \frac{3}{2} = \boxed{1.5} \text{ h}$$

$$[t] = 0 \text{ in } 0 \leq t < 1$$