

**1-2\***

From a free-body diagram of the ring, the equations of equilibrium

$$\rightarrow \Sigma F_x = 0: \quad T_2 \cos 10^\circ - T_1 \sin 10^\circ = 0$$

$$\uparrow \Sigma F_y = 0: \quad T_1 \cos 10^\circ - T_2 \sin 10^\circ - 175(9.81) = 0$$

are solved to get

$$T_1 = 5.67128T_2$$

$$T_1 = 1799 \text{ N} \dots\dots\dots \text{Ans.}$$

$$T_2 = 317 \text{ N} \dots\dots\dots \text{Ans.}$$

$$T_3 = 175(9.81) = 1717 \text{ N} \dots\dots\dots \text{Ans.}$$

