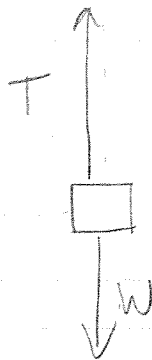


$$\begin{aligned}m &= 85 \text{ kg} \\r &= 10.0 \text{ m} \\v_t &= 8.0 \text{ m/s}\end{aligned}$$

F_c is directed up (towards circle center) <

$$F_c = F_{\text{net}} = T - W$$



$$\uparrow F_c = F_{\text{net}}$$

$$W = m \cdot g = (85 \text{ kg})(9.8 \text{ m/s}^2) = 833 \text{ N}$$

$$F_c = \frac{m \cdot v_t^2}{r} = \frac{(85 \text{ kg})(8.0 \text{ m/s})^2}{(10.0 \text{ m})} = 544 \text{ N}$$

$$F_c = T - W$$

$$544 \text{ N} = T - 833 \text{ N}$$

$$T = 1377 \text{ N}$$

Tarzan does not make it
across the river