----- Problem 1 -----  \( F_A = 24 \text{ N} \) at \( 2.9 \text{ m} \). \( F_B = 32 \text{ N} \) at \( 2.1 \text{ m} \). \( F_C = 18 \text{ N} \) at \( 1.7 \text{ m} \). The rotational inertia \( I \) of the object is \( 3.9 \text{ kg\cdotm}^2 \).

- What is the net torque on this object?
- What is the angular acceleration \( \alpha \) at this instant?

Answers
1. \( \tau_{\text{net}} = -7.51955 \text{ N\cdotm (CW)}, \alpha = -1.9281 \text{ rad/s}^{-2} \text{ (CW)} \)
2. \( \alpha = -0.1875 \text{ rad/s}^{-2} \text{ (CW)} \)