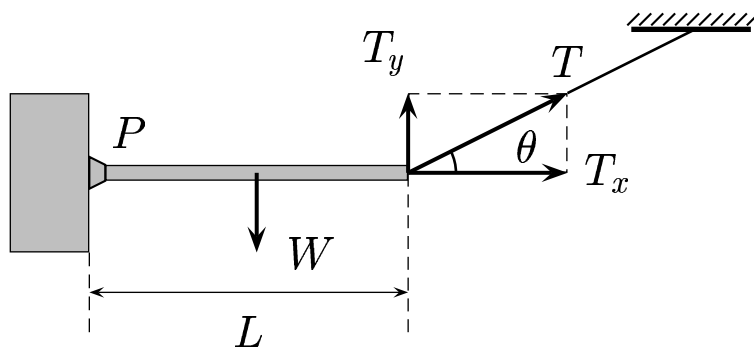


For the set up shown, quantities L , W and θ are given.



Find T .

- A) $T = \frac{W}{2 \sin \theta}$.
- B) $T = \frac{W}{2 \cos \theta}$.
- C) $T = \frac{W}{2}$.

The torque equation about P is given by

$$\sum \tau : T_y L = T \sin \theta L = W \frac{L}{2}.$$

or

$$T = \frac{W}{2 \sin \theta}.$$

Answer **A**.

12.03-02 A Rod Supported Horizontally 2004-4-6