



A ladder is leaning against a smooth wall. There is a friction between the ladder and floor, which holds the ladder in place.

Determine torques about the pivot point P.

- A) counterclockwise,  $F L \sin \theta$ ; clockwise,  $W \frac{L}{2} \cos \theta$ .
- B) counterclockwise,  $F L \cos \theta$ ; clockwise,  $W \frac{L}{2} \cos \theta$ .
- C) counterclockwise,  $F L \sin \theta$ ; clockwise,  $W \frac{L}{2} \sin \theta$ .
- D) counterclockwise,  $F L \cos \theta$ ; clockwise,  $W \frac{L}{2} \sin \theta$ .

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By inspection,  
Answer **A**.