



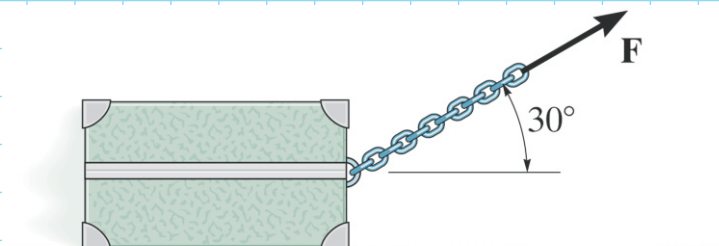
NAME

DATE

**PROBLEM: AP-22**

**GIVEN:**

The 20-kg crate is subjected to a force having a constant direction and a magnitude  $F = 100$  N. When  $s = 15$  m, the crate is moving to the right with a speed of 8 m/s. Determine its speed when  $s = 25$  m. The coefficient of kinetic friction between the crate and the ground is  $\mu_k = 0.25$ .



**REQUIRED:**

**SOLUTION:**