

Problem 10.62

Step 1: Draw Picture and Establish Given Values

$\theta = 30$  degrees

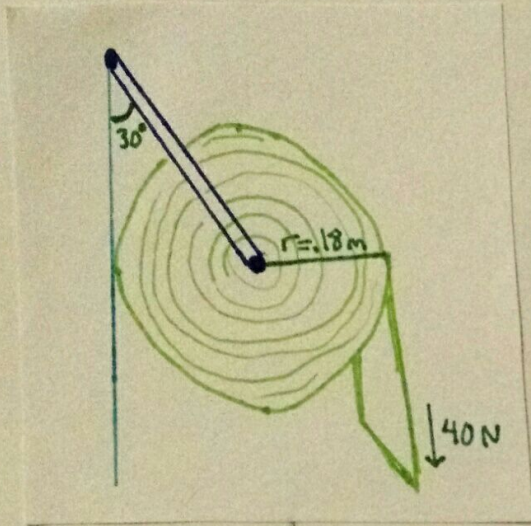
$m = 16.0$  kg

$R = 18.0$  cm =  $0.18$  m

$I = 0.260$  kg/m

$\mu_k = 0.25$

$F = 40.0$  N



Step 2: Draw the Force Diagram

- Call the force of the rod on the roll  $P$  and break it up into its  $x$  and  $y$  components.

