Test 5 Helpful Info

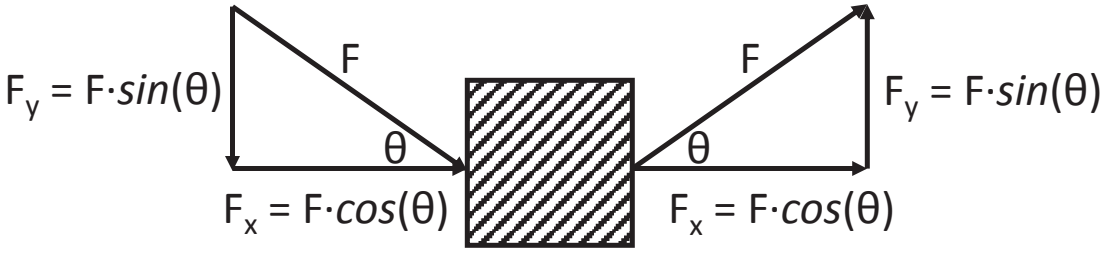
$F_g = m \cdot g = \textit{weight}$

$\Sigma F_x = m \cdot a$

$F_{fs} = F_N \cdot \mu_s$

$F_{fk} = F_N \cdot \mu_k$

1. Resolve the vectors.
2. Draw Free Body Diagrams (FBD).
3. Write the net force equations.
4. Plug in numbers and solve for normal force F_N.
5. Determine if the object will move. Is the force applied greater than the static frictional force ($F_x > F_{fs}$)?
6. Use F_x and kinetic frictional force (F_{fk}) to solve for ax.



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