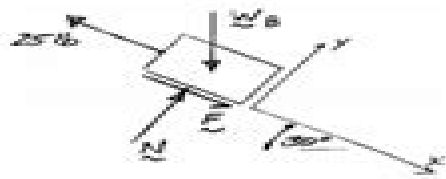


## Chapter 8, Solution 1.

FBD Block B:



Tension in cord is equal to  $W_A = 25$  lb from FBD's of block A and pulley.

$$\nearrow \Sigma F_y = 0: \quad N - W_B \cos 30^\circ = 0, \quad N = W_B \cos 30^\circ \nearrow$$

(a) For smallest  $W_B$ , slip impends up the incline, and

$$F = \mu_s N = 0.35 W_B \cos 30^\circ$$

$$\searrow \Sigma F_x = 0: \quad F - 25 \text{ lb} + W_B \sin 30^\circ = 0$$

$$(0.35 \cos 30^\circ + \sin 30^\circ) W_B = 25 \text{ lb}$$

$$W_{B \min} = 31.1 \text{ lb} \quad \blacktriangleleft$$

(b) For largest  $W_B$ , slip impends down the incline, and

$$F = -\mu_s N = -0.35 W_B \cos 30^\circ$$

$$\searrow \Sigma F_x = 0: \quad F_x + W_B \sin 30^\circ - 25 \text{ lb} = 0$$

$$(\sin 30^\circ - 0.35 \cos 30^\circ) W_B = 25 \text{ lb}$$

$$W_{B \max} = 127.0 \text{ lb} \quad \blacktriangleleft$$

# Vector Mechanics 8th Solutions Manual

**Siddappa N.Byrareddy**



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