Chapter 8, Solution 1.
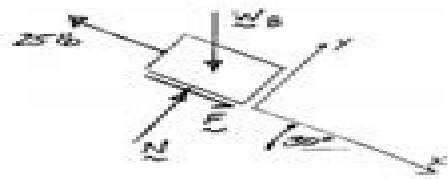
FBD Block B:

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

$\Sigma F_y = 0:$ $N - W_B \cos 30° = 0,$ $N = W_B \cos 30°$

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

$$F = \mu_s N = 0.35 W_B \cos 30°$$

$\Sigma F_x = 0:$ $F - 25 \text{ lb} + W_B \sin 30° = 0$

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

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

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

$$F = -\mu_s N = -0.35 W_B \cos 30°$$

$\Sigma F_x = 0:$ $F_x + W_B \sin 30° - 25 \text{ lb} = 0$

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

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

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