

As indicated in Examination Figure 8, a body that weighs 80 lb is to be pushed upward along a plane surface which is inclined so that the angle between a horizontal reference line and the surface is  $30^\circ$ . If the coefficient of friction for the materials of the body and the inclined surface is 0.2, the magnitude of the smallest horizontal force  $P$  that would start the body moving (rounded off to the nearest pound) would be

- A. 34 lb.
- B. 52 lb.
- C. 56 lb.
- D. 70 lb.

