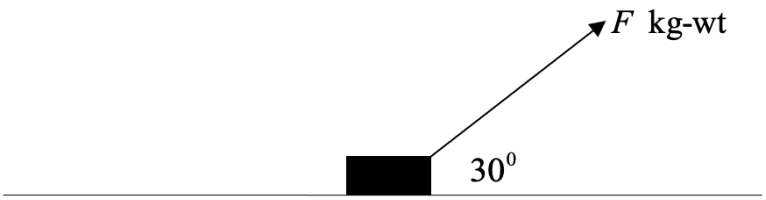
Question 37



A box of mass 3 kg is on a horizontal plane. A force of magnitude *F* kg-wt acting at an angle of 30^0 to the horizontal is applied to the box.

The coefficient of friction between the box and the plane is $\frac{\sqrt{3}}{2}$.

Which of the following is true?

A. If $F < 2g$ the box is not on the point of moving.

B. If $F < 2g$ the box moves with constant velocity.

C. If $F = 2$ the box moves with constant acceleration.

D. If $F > 2$ the box moves with constant velocity.

E. If $F > 2$ the box moves with constant acceleration.

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