



Given:

$$m = 50 \text{ kg}$$

$$\alpha = 30^\circ$$

What asking for: k

Solution:

$$\text{ox: } N - mg \cos(\alpha) = 0$$

$$\text{oy: } kN - mg \sin(\alpha) = 0$$

$$\text{Where from } k = \tan(\alpha) = \tan(30) = 1.0/\sqrt{3}$$

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