

Calculating Work

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A 1.5 kg box, starting from rest, is pushed a distance of 4.0 m up a hill. The slope of the hill is 30. degrees. The pushing force has a magnitude of 50. N. It acts horizontally. In addition, there is a friction of 2.0 N.

What is the speed of the box after the 4.0 m?

- Solve this problem WITH conservation of energy
- Solve this problem WITHOUT conservation of energy
- Which one do you think is easier?

