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Ch 5.1 - Page 162 - Practice Problems A – Work

1. A tugboat pulls a ship with a constant net horizontal force of 5.00 x 103 N and cause s the ship to move through a harbor. How much work is done on the ship if it moves distance of 3.00 km?
2. A weight lifter lifts a set of weighs a vertical distance of 2.00 m. If a constant net force of 350 N is exerted on the weights, what is the net work one on the weights?
3. A shopper in a supermarket pushes a cart with a force of 25 N directed at an angle 25° downward from the horizontal. Find the work done by the shopper on the cart as the shopper moves along a 50.0 m length of aisle.
4. If 2.0 J of work is done in raising a 180 g apple, how far is it lifted?