Force versus Net Force

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Spring 2024

This material is borrowed/adapted from PH 201 Tutorial 5 for Fall 2020 and Mastering Physics.

XX-1: Force versus Net Force

(a) If an object is at rest can you conclude that there are no forces acting on it? Explain.

No. You can only conclude that the net force on the object is zero.

(b) If a force is exerted on an object, is it possible for that object to be moving with constant velocity? Explain.

No if it is the only force acting on the object. Yes if it is balanced by other forces so that the net force is zero.