Newton's 2nd Law Worksheet

1. Find the weight of a body whose mass is 3 kg.

2. Find the force required to give a block weighing 19.6 N an acceleration of 8 m/sec^2.

3. A force acts on a 5 kg mass and reduces it velocity from 7 m/sec to 3 m/sec in 2 seconds. Find the force acting on the object.

4. An 8 kg body is acted upon by an outside force for 4 seconds and gains a velocity of 20 m/sec. Determine the magnitude of the force.

5. A 2 kg mass hangs at the end of a wire. Find the tension in the wire if (a) the acceleration is zero; (b) the acceleration is 5 m/sec^2 upward; and (c) the acceleration is 5 m/sec^2 downward.