

7-1)

An object (mass = 0.16 kg) is sliding on a frictionless horizontal surface. At  $t=0$ , the velocity is +3 m/s.

- a) If a force of +25 N is applied to the object for 0.05 seconds, what will be the final velocity?
- b) If a force of -12 N is applied to the object for 0.05 seconds, what will be the final velocity?

Use impulse-momentum.