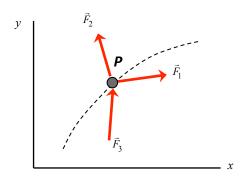
Summary: Linear Impulse-Momentum Equation 2

FUNDAMENTAL equation: the linear impulsemomentum equation:

$$m\vec{v}_2 = m\vec{v}_1 + \int_{1}^{2} \left(\sum \vec{F}\right) dt$$



SOLUTION PROCESS:

- 1. Draw free body diagram (FBD) for system of your choice. As mentioned before, make your system as "large" as possible.
- 2. Write down the impulse-momentum equation.
- 3. Write down the appropriate kinematics (velocity) equations for the problem.
- 4. If you have enough equations, solve for the desired unknowns. If you do not have enough equations, then you have probably missed some information from kinematics.