

### DEFINITIONS

**INERTIA** property of a material by which it is unable to change its condition of motion

**FORCE** push or pull that changes condition of motion (internal and external)

**MOMENTUM** mass x velocity, character of moving body

### FORMULAS

$$P=mv$$

$$F=ma \text{ (2nd law)}$$

$$I=F_{avg} \times t = p_2 - p_1 : I = \int F dt$$

### PROOFS

### PRINCIPLES/STATEMENTS

1st law/law of inertia

2nd law/law of linear momentum

3rd law/law of action reaction

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