

# CONTENTS:

- Kinematics + forces
- Newton's Laws
- Gravitation and Electric fields
- Electric circuits
- Electrodynamics

## KINEMATICS:

**mechanics:** Branch of physical science that deals with energy and forces and their effect on bodies.

**vector:** Physical quantity that has both magnitude and direction

**Resultant vector:** Single vector that has same effect on a body as original vectors acting together.

**tail-to-head:** Method of graphically finding resultant vector.

— Resultant of 2 perpendicular forces:

- tail-to-head



$$F_{\text{net}}^2 = F_1^2 + F_2^2$$

$$F_{\text{net}}^2 = 0.43^2 + 2.1^2$$

$$F_{\text{net}}^2 = 4.59$$

$$F_{\text{net}} = 2.14\text{N}$$

— Resultant of more than 2 perpendicular forces:

- add & subtract vertical and horizontal forces to end up with one vertical and one horizontal force
- Then do tail-to-head method



$$\sin 42^\circ = \frac{F_{\text{net}1}}{F}$$

$$F_{\text{net}1} = 4.82$$

$$\cos 42^\circ = \frac{F_{\text{net}2}}{F}$$

$$F_{\text{net}2} = 5.35\text{N}$$



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