

# 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



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

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

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

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



# Physical Science Grade 11 Paper 1 2013

**Oswaal Editorial Board**



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In a global inundated with monitors and the cacophony of instantaneous communication, the profound power and emotional resonance of verbal art frequently diminish in to obscurity, eclipsed by the continuous assault of sound and distractions. However, nestled within the lyrical pages of **Physical Science Grade 11 Paper 1 2013**, a charming function of fictional beauty that impulses with raw thoughts, lies an unforgettable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, this mesmerizing opus books readers on a mental odyssey, delicately exposing the latent potential and profound influence embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is central themes, dissect their interesting writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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