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> Workbook answers

Chapter 4

Exercise 4.1 Adding forces

- 1 **a** the hypotenuse
b 22.4 N (by Pythagoras)
c $\tan^{-1} 2.0 = 63.4^\circ$

2 **a, b**



- c** 15.3 N
d $\tan^{-1} 5.0 = 78.7^\circ$
- 3 **a** scale diagram of triangle with sides of length 6 cm and 10 cm
b length = 14.0 cm so resultant force = 280 N
c angle = 32°

4 **a**



- b** scale drawing: resultant force = 807 N at 48° to drag force

Exercise 4.2 Resolving forces

- 1 **a** $100 \cos 30^\circ = 86.6$ N
b $100 \sin 30^\circ = 50$ N
c $50^2 + 86.6^2 = 10\,000 = 100^2$

- 2 **a** horizontal = vertical component = 177 N



- b** Each component is at 45° to the force.
- 3 **a** $700 \cos 70^\circ = 239$ N
b $239 - 120 = 119$ N
c It is at 90° to the slope, so its component down the slope is zero.
d resolving at right angles to the slope: component of weight = $700 \cos 20^\circ = 658$ N = contact force
- 4 The angle between NE and E is 45° . The component of velocity = $300 \cos 45^\circ = 212$ m s $^{-1}$.

Exercise 4.3 Moment of a force

- 1 **a** 37.5 N m anticlockwise
b 30 N m clockwise
c It is not in equilibrium; resultant moment acts anticlockwise.
- 2 **a** 9 N m anticlockwise
b $X = \frac{9}{0.25} = 36$ N
- 3 **a** total clockwise moment = $5.0 \times 0.20 + 2.0 \times 0.60 = 2.2$ N m
b $X = \frac{2.2}{0.20} = 11$ N
c $C = 11.0 + 5.0 + 2.0 = 18.0$ N

Conceptual Physics Reading And Study Workbook

Answers Chapter 4

Paul G. Hewitt



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