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# > Workbook answers

# Chapter 4

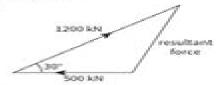
#### Exercise 4.1 Adding forces

- 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  $tam^{-1}5.0 = 78.7^{\circ}$
- 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 0



b scale drawing; resultant force = 807 N at 48\* to drag force

#### Exercise 4.2 Resolving forces

- 1 a 100 cos 30° = 86.6 N
  - b 100 sin 30° = 50 N
  - c 50° + 86.6° = 10 000 = 100°

2 horizontal = vertical component = 177 N

vertical component



- Each component is at 45° to the force.
- 3 a 700 cos 70\* = 239 N
  - b 239 120 119 N
  - 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° = 658 N = contact force
- 4 The angle between NE and E is 45°. The component of velocity = 300 cos 45° = 212 m s<sup>-1</sup>.

#### Exercise 4.3 Moment of a force

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

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**Christian G. Meyer** 

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