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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 =  $32^\circ$
- 4 a



- b scale drawing: resultant force = 807 N at  $48^\circ$  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  $45^\circ$  to the force.
- 3 a  $700 \cos 70^\circ = 239$  N  
b  $239 - 120 = 119$  N  
c It is at  $90^\circ$  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  $45^\circ$ . 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

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**Christian G. Meyer**



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