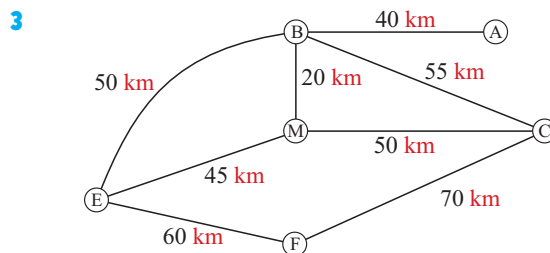
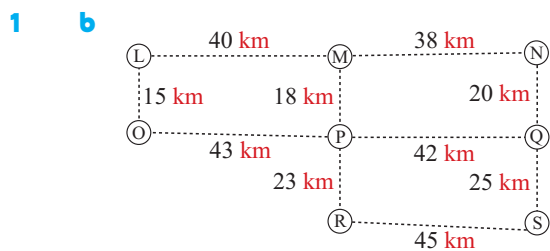


## ERRATA

### MATHEMATICS FOR YEAR 11 (Fifth Edition) GEOMETRY AND TRIGONOMETRY

Fifth edition - 2012 reprint

page 316 EXERCISE 5B.2



page 412 ANSWERS EXERCISE 1B.1

**7 b**  $\cos(180 - \theta) = -\cos \theta$

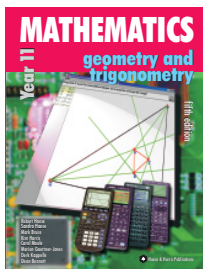
page 413 ANSWERS EXERCISE 1H

**9**  $\frac{1}{4}$  **10 a**  $6 \text{ cm}^2$  **b**  $6 \text{ cm}^2$

**11 a**  $21.3 \text{ cm}^2$  **b**  $30.7 \text{ cm}^2$

page 428 ANSWERS EXERCISE 3J.1

**9**  $343.1 \text{ kmph}$ ,  $092.93^\circ$



## ERRATA

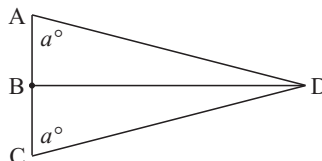
### MATHEMATICS FOR YEAR 11 (Fifth Edition) GEOMETRY AND TRIGONOMETRY

#### Fifth edition - 2009 reprint

page 153 **EXERCISE 3C**

- 3** You are given a triangle which has two equal angles at A and C. BD bisects  $\angle ADC$ .

Use this figure and congruence only to prove 'the equal angles of a triangle' theorem.



page 200 **EXERCISE 3M**

- 7 f**  $-3\mathbf{i} + 4\mathbf{j}$  with length  $\sqrt{3}$  units

page 274 **EXAMPLE 38** Question and the first line of the solution should read:

If  $\cos x = \frac{3}{5}$  and  $\frac{3\pi}{2} < x < 2\pi$  find the exact value of  $\cos\left(\frac{x}{2}\right)$ .

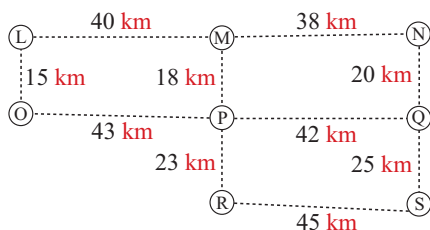
As  $\frac{3\pi}{2} < x < 2\pi$  then  $\frac{3\pi}{4} < \frac{x}{2} < \pi$  and so,  $\cos\left(\frac{x}{2}\right) < 0$ .

page 290 **REVIEW EXERCISE 4H**

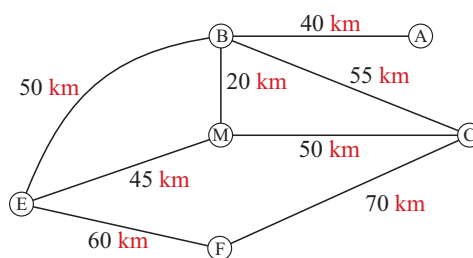
- 59** Show that  $(\cos \theta - \sin \theta)^2$  simplifies to  $1 - \sin 2\theta$ .

page 316 **EXERCISE 5B.2**

**1 b**



**3**



page 412 **ANSWERS EXERCISE 1B.1**

- 7 b**  $\cos(180 - \theta) = -\cos \theta$

page 413 **ANSWERS EXERCISE 1H**

- 9**  $\frac{1}{4}$  **10 a**  $6 \text{ cm}^2$  **b**  $6 \text{ cm}^2$   
**11 a**  $21.3 \text{ cm}^2$  **b**  $30.7 \text{ cm}^2$

page 418 **ANSWERS EXERCISE 2H.2** replace answers to question **11** and **12** with:

- 11**  $(x - 2)^2 + (y - 3)^2 = 9$   
**12**  $2x - y = 5$   
**13**  $k = 0$   
**14** centre  $(0, 0)$ , radius  $\sqrt{5}$  units, centre  $(3, -6)$ , radius  $4\sqrt{5}$  units, distance between centres is  $3\sqrt{5}$  units, point of contact  $(-1, 2)$

4 b 0.429 secs

9 343.1 kmph, 092.93°

1 e 52

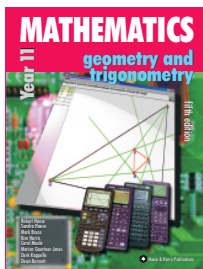
4 b  $\sin \beta = \frac{-\sqrt{21}}{5}$ ,  $\sin 2\beta = \frac{-4\sqrt{21}}{25}$

1 ii (delete b to the left of ii)

iii  $y = \tan 2x$

1 j 1

1 c  $\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$



## ERRATA

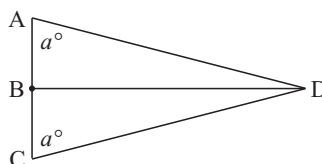
### MATHEMATICS FOR YEAR 11 (Fifth Edition) GEOMETRY AND TRIGONOMETRY

#### Fifth edition - 2007 reprint

page 153 **EXERCISE 3C**

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Use this figure and congruence only to prove 'the equal angles of a triangle' theorem.



page 200 **EXERCISE 3M**

- 7 f**  $-3\mathbf{i} + 4\mathbf{j}$  with length  $\sqrt{3}$  units

page 274 **EXAMPLE 38** Question and the first line of the solution should read:

If  $\cos x = \frac{3}{5}$  and  $\frac{3\pi}{2} < x < 2\pi$  find the exact value of  $\cos\left(\frac{x}{2}\right)$ .

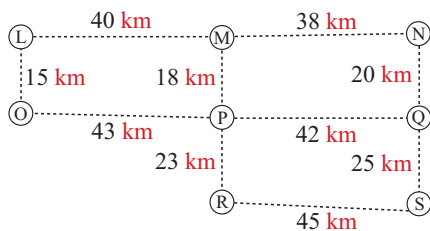
As  $\frac{3\pi}{2} < x < 2\pi$  then  $\frac{3\pi}{4} < \frac{x}{2} < \pi$  and so,  $\cos\left(\frac{x}{2}\right) < 0$ .

page 290 **REVIEW EXERCISE 4H**

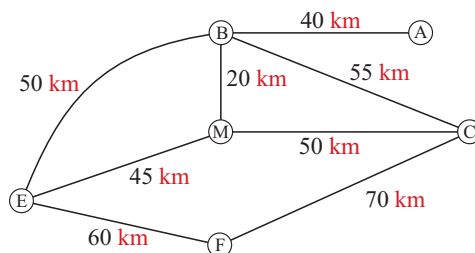
- 59** Show that  $(\cos \theta - \sin \theta)^2$  simplifies to  $1 - \sin 2\theta$ .

page 316 **EXERCISE 5B.2**

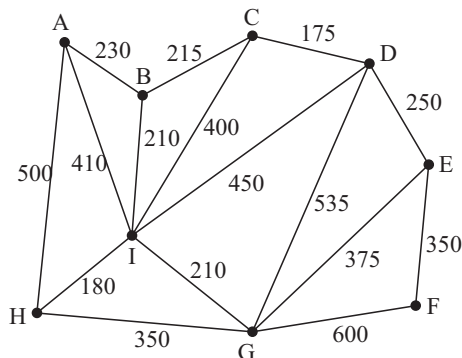
**1 b**

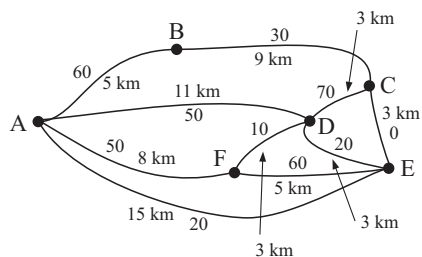


**3**



page 354 **REVIEW EXERCISE 5H** question **18** diagram should be:





page 412 ANSWERS EXERCISE 1A.1

2 c  $\angle KLM$  is a right angle (within the limitations of measurement)

page 412 ANSWERS EXERCISE 1B.1

7 b  $\cos(180 - \theta) = -\cos \theta$

page 412 ANSWERS EXERCISE 1E

20 30.78 m

page 413 ANSWERS EXERCISE 1H

9  $\frac{1}{4}$  10 a  $6 \text{ cm}^2$  b  $6 \text{ cm}^2$

11 a  $21.3 \text{ cm}^2$  b  $30.7 \text{ cm}^2$

page 418 ANSWERS EXERCISE 2H.2 replace answers to question 11 and 12 with:

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12  $2x - y = 5$

13  $k = 0$

14 centre  $(0, 0)$ , radius  $\sqrt{5}$  units, centre  $(3, -6)$ , radius  $4\sqrt{5}$  units, distance between centres is  $3\sqrt{5}$  units, point of contact  $(-1, 2)$

page 420 ANSWERS EXERCISE 2K.3

4 b 0.429 secs

page 428 ANSWERS EXERCISE 3J.1

9 343.1 kmph,  $092.93^\circ$

page 430 ANSWERS EXERCISE 3O

1 e 52

page 438 ANSWERS EXERCISE 4F.5

4 b  $\sin \beta = \frac{-\sqrt{21}}{5}$ ,  $\sin 2\beta = \frac{-4\sqrt{21}}{25}$

page 438 ANSWERS EXERCISE 4G.1

1 ii (delete b to the left of ii)

iii  $y = \tan 2x$

page 439 ANSWERS EXERCISE 4G.3

1 j 1

page 439 ANSWERS EXERCISE 4G.4 answer numbering change: 1 a to 1 c

1 c  $\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$

page 441 ANSWERS EXERCISE 5A.3

3 a and e, b and d, c and f, h and j

page 444 ANSWERS EXERCISE 5B.3

2 d 4