

## ERRATA

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

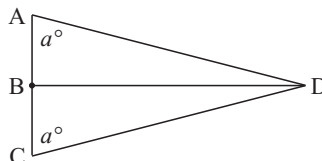
#### Fifth edition - 2009 reprint

page 153 EXERCISE 3C

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- 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

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- 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:

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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

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

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

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**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)

page 420 ANSWERS EXERCISE 2K.3

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**4 b** 0.429 secs

page 430 ANSWERS EXERCISE 3O

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**1 e** 52

page 438 ANSWERS EXERCISE 4F.5

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

page 438 ANSWERS EXERCISE 4G.1

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- 1 ii** (delete **b** to the left of **ii**)

**iii**  $y = \tan 2x$

page 439 ANSWERS EXERCISE 4G.3

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**1 j** 1

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

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