

ERRATA

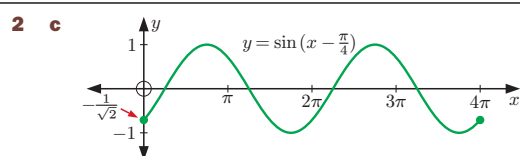
MATHEMATICS FOR AUSTRALIA 11

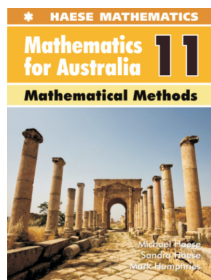
Mathematical Methods

First edition - 2017 third reprint

The following erratum was made on 4/Feb/2019

page 447 **ANSWERS EXERCISE 7B.2** Question **2 c**, should display correct graph:





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MATHEMATICS FOR AUSTRALIA 11

Mathematical Methods

First edition - 2016 second reprint

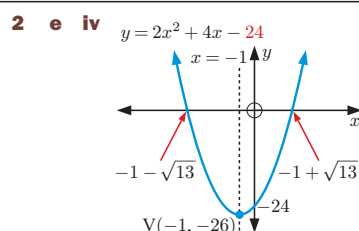
The following erratum was made on 11/Sep/2017

page 450 **ANSWERS EXERCISE 7G** Question **14**, should read:

13 $\tan \alpha = \frac{25}{62}$ **14** $\frac{1}{8}$

The following erratum was made on 27/Feb/2017

page 432 **ANSWERS EXERCISE 2D.3** Question **2 e iv**, should state the function equation correctly:



The following errata were made on 9/Jan/2017

page 445 **ANSWERS EXERCISE 5D.2** Question **1**, should give angles correct to 1 decimal place:

- | | |
|--|---|
| 1 a $\theta \approx 76.0^\circ$ or 256° | b $\theta \approx 33.9^\circ$ or 326.1° |
| c $\theta \approx 36.9^\circ$ or 143.1° | d $\theta = 90^\circ$ or 270° |
| e $\theta \approx 98.5^\circ$ or 278.5° | f $\theta \approx 96.8^\circ$ or 263.2° |
| g $\theta \approx 114.1^\circ$ or 294.1° | h $\theta \approx 87.2^\circ$ or 267.2° |
| i $\theta \approx 77.2^\circ$ or 102.8° | |

page 458 **ANSWERS EXERCISE 11D** Question **10 c ii**, should read:

- 10 a** 166 cm **b** 7.97 cm
c i 10 students **ii** 164.1 cm

page 462 **ANSWERS EXERCISE 12H** Question **8 b**, should read:

- 8 a** $x \approx 3.46$ **b** $x \approx 2.46$ **c** $x \approx 1.16$

page 464 **ANSWERS REVIEW SET 12B** Question **5 b**, should not round:

- 5 a** 4.70×10^4 **b** 5.306×10^6 **c** 9.42×10^{-6}

page 464 **ANSWERS EXERCISE 13A** Question **6 d**, should be less strict:

- 6 a** $x > 1$ **b** $x = 1$ **c** $0 < x < 1$ **d** $x \leq 0$

page 465 **ANSWERS REVIEW SET 13A** Question **2 h**, should read:

- 2 f** $\frac{1}{4}$ **g** -1 **h** $\frac{1}{2}$, $k > 0$, $k \neq 1$

The following errata were made on 7/Dec/2016

page 176 INVESTIGATION 3 Question 1 b, should have correct c values:

What to do:

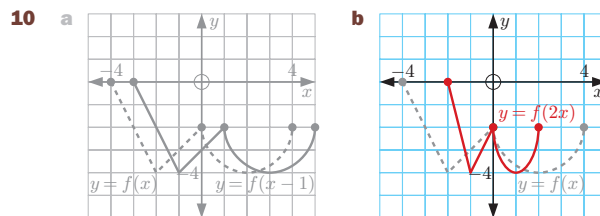
- 1 Use the slider to vary the value of c .
 - a Observe the changes to the graph of the function.
 - b Complete the table:

c	Function	Maximum	Minimum	Period	Amplitude
0	$y = \sin x$	1	-1	2π	1
2	$y = \sin(x - 2)$				
-2	$y = \sin(x + 2)$				
$\frac{\pi}{3}$	$y = \sin\left(x - \frac{\pi}{3}\right)$				
c	$y = \sin(x - c)$				

page 436 ANSWERS EXERCISE 3F.1 Question 7 a, can not say anything concrete about the x intercepts:

- 7 a y -intercept is -1 b x -intercepts are -2 and 5
 c inconclusive

page 439 ANSWERS REVIEW SET 3A Question 10 b, should display correct transformation:

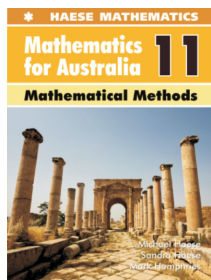


page 448 ANSWERS EXERCISE 7B.3 Question 2 c, should also include:

- 2 a b, c, d b c, d c a, d 3 a $\frac{2\pi}{5}$ b 8π c $\frac{2\pi}{3}$

page 459 ANSWERS REVIEW SET 11A Question 10, should not give answer as a percentage:

- 9 a $\approx 47.7\%$ b $\approx 2.28\%$ 10 ≈ 0.841



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The following erratum was made on 29/Jul/2016

page 467 **ANSWERS REVIEW SET 14B** Question **8 b**, should use the correct variable:

- 8 a** i 447.2 m ii 432.8 m **b** $f'(t) = -9.6t \text{ ms}^{-1}$
c i -9.6 ms^{-1} ii -19.2 ms^{-1}

The following errata were made on 10/Jun/2016

page 186 **CHAPTER 7 EXAMPLE 7** First line of solution should read:

$y = \tan\left(x + \frac{\pi}{4}\right)$ is a horizontal
translation of $y = \tan x$ through
 $\frac{\pi}{4}$ units to the left.

page 392 **CHAPTER 14 REVIEW SET 14B** Question **8 b**, should use the correct variable:

- 8 b** Find $f'(t)$ from first principles.

page 444 **ANSWERS EXERCISE 5B** Questions **9 d**, **11 b**, and **12**, should note that answers are approximate:

- 9 a** $\approx 11.7 \text{ cm}$ **b** ≈ 11.7 **c** $\approx 37.7 \text{ cm}$ **d** $\approx 3.23^\circ$
10 25.9 cm **11 b** $\approx 2 \text{ h } 24 \text{ min}$ **12** $\approx 227 \text{ m}^2$

page 447 **ANSWERS EXERCISE 7B.2** Question **5 b**, should read:

- 5 a** $d > 1$ **b** $d < -1$ **c** $-1 < d < 1$

page 450 **ANSWERS REVIEW SET 7B** Question **9 a**, should read:

- 9 a** $x \approx -6.1$ or ≈ -3.4 **b** $x \approx 0.8$

page 454 **ANSWERS REVIEW SET 9A** Question **1**, need only answer to two decimal places:

- 1 a** ≈ 0.13 **b** ≈ 0.53

The following errata were made on 16/Feb/2016

page 428 **ANSWERS EXERCISE 1B** Questions **6 e** and **f**, should read:

- 6 a** y is halved **b** y is multiplied by 6
c x is divided by 10 **d** y is multiplied by 3.5
e x is divided by 1.2 **f** y is divided by 0.93

page 450 **ANSWERS REVIEW SET 7A** Question **13**, should give solutions for $0 \leq x \leq 2\pi$:

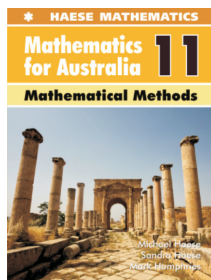
- 13** $x = \frac{\pi}{8}, \frac{3\pi}{8}, \frac{5\pi}{8}, \frac{7\pi}{8}, \frac{9\pi}{8}, \frac{11\pi}{8}, \frac{13\pi}{8}$, or $\frac{15\pi}{8}$

page 459 **ANSWERS EXERCISE 11E** Question **6 b i**, should read:

- 6 a** apples
b i $P(\text{apples} > 160 \text{ g}) = P(\text{oranges} > 160 \text{ g}) \approx 0.159$
ii oranges iii ≈ 0.0794

page 459 **ANSWERS REVIEW SET 11A** Question **9 b**, should read:

- 9 a** $\approx 47.7\%$ **b** $\approx 2.28\%$ **10** 84.1%



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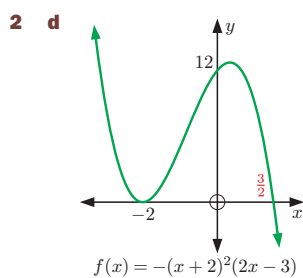
MATHEMATICS FOR AUSTRALIA 11

Mathematical Methods

First edition - 2015 initial print

The following errata were made on or before 07/Dec/2015

page 441 **ANSWERS EXERCISE 4E** Question **2 d**, should have correct x -axis intercept:



page 442 **ANSWERS EXERCISE 4E** Question **6 b**, should have correct function equation:

- 6 a** $-2(x+3)(x-1)^2$
c as $x \rightarrow \infty$, $y \rightarrow -\infty$
 as $x \rightarrow -\infty$, $y \rightarrow \infty$

