MATHEMATICS SL (SECOND EDITION)
(as at 17 September 2009)

ERRATA FOR INITIAL PRINT RUN

TEXT

page 186 **Review set 6B**

1 a Convert it into the form $y = a(x-h)^2+k$ by 'completing the square'.

page 288 **Exercise 11B.7**

4 a Second line should be:

Show that $w = z = 1$ and $x = y = 0$ is a solution.

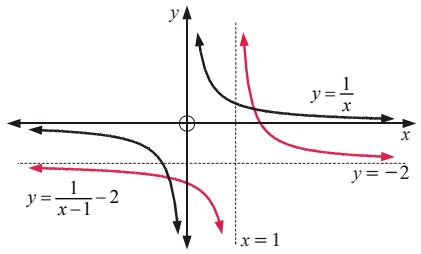
ANSWERS

page 706 **Exercise 5A**

9 Last line should be: above the x-axis.

page 710 **Review set 5B**

6 a ii Diagram should be:



page 711 **Review set 5C**

4 $g(x) = -x^2 - 6x - 7$

page 713 **Exercise 6C.3**

2 d Last line should be: $\{$as $k^2 \geqslant 0$ for all $k\}$

page 716 **Review set 8B**

11 $r \approx 8.79$ cm, area ≈ 81.0 cm^2

page 717 **Exercise 2A**

2 $x \approx 10.0$

page 717 **Exercise 9C.2**

1 $\widehat{C} \approx 62.1^o$ or $\widehat{C} \approx 117.9^o$

6 a 91.3^o

page 717 **Review set 9C**

2 $x \approx 47.5$ or 132.5

page 718 **Exercise 10C**

1 a $T \approx 6.5 \sin \frac{\pi}{6}(t-4.5) + 20.5$

page 720 **Exercise 10G.1**

3 a Last number should be 13.7 (not 13.8)

page 721 **Review set 10A**

9 c $x = \frac{16}{3}$

page 722 **Review set 10B**

8 a $T \approx 7.05 \sin(\frac{\pi}{6}(t-10.5)) + 24.75$

page 732 **Review set 13C**

4 b Second line should be:

and (NK) is perpendicular to (MN) as $\begin{pmatrix} 4 \\ 10 \end{pmatrix} \bullet \begin{pmatrix} -5 \\ 2 \end{pmatrix} = 0$

page 733 **Exercise 14D**

1 a 25.2 cm

page 734 **Exercise 14D**

5 c ii 0.0267

page 736 **Review set 14C**

5 a $\bar{x} = €103.51$, $s \approx €19.40$

b $\mu = €103.51$, $\sigma \approx €19.40$

page 740 **Exercise 17C**

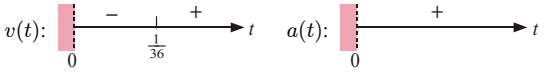
2 a $7.5x^2 - 2.8x$

page 741 **Exercise 17G**

10 d Area $= \frac{18}{|a|}$ units^2, area $\to 0$ as $|a| \to 0$

page 747 **Review set 18B**

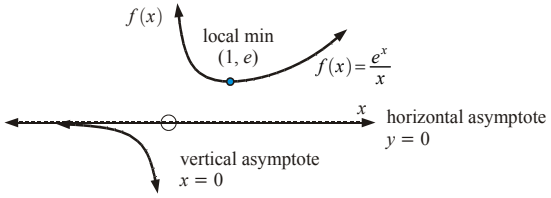
3 a Diagram should be:



e Particle's speed is decreasing for $0 < t \leqslant \frac{1}{36}$

page 749 **Exercise 19D**

12 d Diagram should be:



page 750 **Exercise 19D**

18 266 or 267 torches

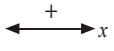
page 750 **Review set 19B**

6 b $s(e) = 25e - 10$ cm, $v(e) = 25 - \frac{10}{e}$ cm min^{-1},

$a(e) = \frac{10}{e^2}$ cm min^{-2}

page 750 **Review set 19C**

4 c Missing sign diagram:



6 b Sign diagrams should be:

page 751 **Exercise 20A**

7 b rising at 2.73 m per hour

page 751 **Review set 20**

8 b $\sqrt{2}y - 4x = 1 - 2\pi$

page 752 **Exercise 21B**

4 c ii Answer should begin: $\int_0^1 (x^2 - x)\,dx = -\frac{1}{6}$

page 753 **Exercise 21D**

6 i $\frac{1}{2}x^2 + 5\ln(1-x) + c, \quad x < 1$

page 756 **Exercise 23B**

7 b $k = \frac{81}{31} \quad (\approx 2.61), \quad \mathrm{P}(X \geqslant 2) = 0.226$

page 756 **Exercise 23C**

13 b $\mu \approx 4.47$

page 756 **Exercise 23D**

4 c 1.25 apples

page 757 **Review set 24A**

2 b $b \approx 32.3$ grams

page 758 **Exercise 25A**

31 iv $q = 100$

33 a Units should be $\mathrm{cm\,s^{-1}}$

b Units should be $\mathrm{cm\,s^{-1}}$

page 761 **Exercise 25B**

40 b Range is $\{y \mid -2.41 \leqslant y \leqslant 0.91\}$

e ≈ 1.721 units^3

page 762 **Exercise 25B**

46 d 3

54 d ≈ 10.9 m

55 e i $\approx$ should be $=$