

ERRATA FOR INITIAL PRINT RUN

TEXT

page 95 **REVIEW SET 3A**

9 Equations should be: $y = \frac{4}{(ax + 1)^2}$

page 251 **Example 17**

b Last four lines should be:

The standard deviation of $\bar{X}_{20} = \frac{10}{\sqrt{20}}$
 $\Pr(35 < \bar{X}_{20} < 45)$
 $= \text{normalcdf}\left(35, 45, 40, \frac{10}{\sqrt{20}}\right)$
 $= 0.975$

page 392 **REVIEW SET 10B**

8 b Write an initial state row matrix S_0 .

ANSWERS

page 396 **Exercise 1A**

2 a x -intercept should be at $\frac{3}{2}$.

4 a equation should be $3y + 2x = 4$, instead of $3x + 2y = 4$.

page 397 **Exercise 1A**

23 f $x = -2\frac{2}{3}$

24 i $-\sqrt{\frac{b(a-1)}{a+1}}$

page 398 **Exercise 2B**

2 d Cost = $8.92A + 11.55$ A 5×10 tarpaulin costs \$458.

4 a There should not be a point at $t = 0$.

4 c i Second to last line should start: $t = 8, y = -11.47...$

page 399 **Exercise 2D**

2 a Shaded region should finish at time = t .

page 400 **Exercise 2D**

4 d Answer should finish:

The t -intercept is 4.62, the time in hours it takes to completely leave the man's bloodstream.

page 402 **Exercise 2F.1**

6 Last line should be:

for $\int_0^{\frac{1}{2}} (x^2 - x) dx$, then doubling the result.)

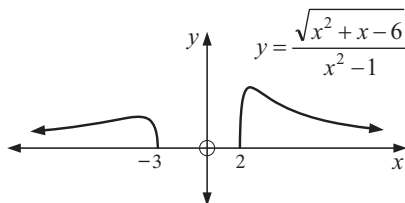
page 402 **Review set 2A**

2 b $A = 640x - 9.6x^2$

page 403 **Review set 2B**

1 d ii linear: $Q = 14.05$, exponential: $Q = 27.9$

3 b



page 408 **Exercise 4B.1**

3 units should be cms^{-2}

page 417 **Exercise 5D.1**

2 a ii Show that $f''(t) = -Abe^{-bt}(bt - 2)$

page 418 **Exercise 5D.1**

3 a Variables should be t and v .

4 a Variables should be t and A .

5 f Variables should be t and B .

page 419 **Exercise 5D.2**

4 c i 4.92 units

page 422 **Review set 5C**

9 f (3.73, 117.2) The rumour spread fastest after 3.73 hours.

page 423 **Exercise 6E.2**

1 i $\frac{1}{4}x^4 + x^3 + \frac{3}{2}x^2 + x + c$

page 425 **Exercise 6I**

5 76.27° C

page 427 **Exercise 7C**

7 a ii 0.815

page 429 **Exercise 7G.1**

4 b Use $\sigma = \sqrt{\sum p_i(x_i - \mu)^2}$

page 430 **Exercise 7H.3**

4 Second line should start:

$P \doteq 0.172$ which is $> 0.05...$

page 430 **Exercise 7I.3**

N should be replaced with μ in this exercise.

page 430 **Exercise 7I.4**

1 a $93700 \leq \mu \leq 96900$

page 431 **Review set 7B**

7 b For $1844 \leq \bar{x} \leq 2156$

page 431 **Review set 7C**

5 b iii Answer should start:
3.33 lies inside the...

8 b i If $T \sim N(\mu, \sigma^2)$, $\bar{T}_{10} \sim N\left(\mu, \left(\frac{\sigma}{\sqrt{10}}\right)^2\right)$

iii $28.8 \leq \mu \leq 41.2$

iv 250

page 432 **Exercise 8A**

5 f $C_{20}^{40} \doteq 1.378r \times 10^{11}$

page 434 **Exercise 8D**

10 b Answer should start:

The number would have to be ≤ 3 or $\geq 14...$

page 434 **Exercise 8E.1**

9 c Between 1566 and 1764

page 435 **Review set 8B**

4 b 0.00518

page 435 **Review set 8C**

5 Answer should start:

$H_0: p = \frac{1}{2}, H_a: p \neq \frac{1}{2}. p \doteq 0.398...$

page 436 **Exercise 9B**

7 d There are no solutions if $a = -4$.

page 443 **Exercise 10D**

12 f Answer should finish:

$$\dots \mathbf{T}^{20} \mathbf{P} = \begin{bmatrix} 1957 \\ 1050 \end{bmatrix}$$

ERRATA FOR FIRST REPRINT

TEXT

page 234 **Exercise 7C**

10 d $N(3, 0.25^2)$.

ANSWERS

page 401 **Exercise 2F.1**

1 b first row of the table should be:

5	0.5497	0.7497
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page 402 **Exercise 2F.1**

8 a -6

page 433 **Exercise 8B.1**

14 b 0.880