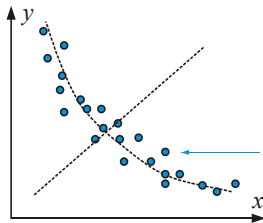


ERRATA FOR INITIAL PRINT RUN

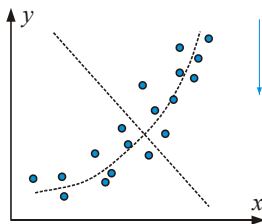
TEXT

page 103 Reciprocal transformation

The diagrams should be:



A $\frac{1}{x}$ transformation will compress the x -values to linearise the data.

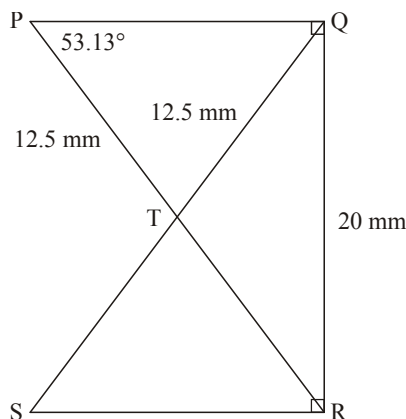


A $\frac{1}{y}$ transformation will compress the y -values to linearise the data.

page 248 Exercise 7C.2

5 Question should begin ‘Triangles PQR and SRQ are congruent...’

Diagram should be:



page 312 Exercise 9E

6 c ii C to D

page 366 Exercise 10H

1 a $y = \frac{2x^2}{3}$

x	-3	-2	-1	0	1	2	3
y	6					$\frac{8}{3}$	

page 412 Multiple choice questions

2 The constraints should be:

$$0 \leq x \leq 4; \quad 4 \leq y \leq 8; \quad y \leq 3x$$

page 429 Exercise 12B.6

1 a the gross capital gain that William made on the painting

page 520 Multiple choice questions

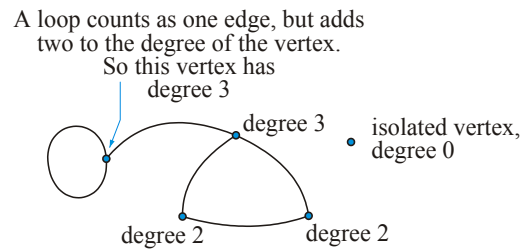
2 D \$2.43

page 527 Section A - Terminology

The second paragraph should read:

“A **loop** starts and ends at the same vertex. It counts as one edge, but contributes *two* to the degree of the vertex.”

The diagram at the top of the page should be:



Note: The same corrections need to be made in the summary to chapter 14 on page 598.

page 533 Example 4

The adjacency matrix should be:

$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \\ 0 & 1 & 2 & 2 \\ 0 & 1 & 2 & 0 \end{bmatrix}$$

The last paragraph should be: “There is a 2 in the leading diagonal. This represents the loop on vertex C.”

page 534 Exercise 14C

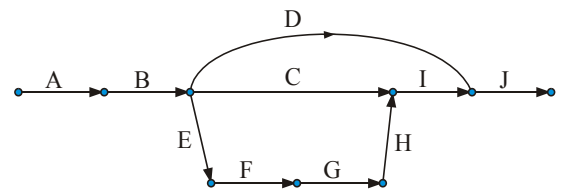
2 b $\begin{bmatrix} 0 & 2 & 0 & 1 \\ 2 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 \\ 1 & 2 & 0 & 2 \end{bmatrix}$

2 c $\begin{bmatrix} 2 & 1 & 0 & 0 \\ 1 & 2 & 1 & 0 \\ 0 & 1 & 2 & 1 \\ 0 & 0 & 1 & 2 \end{bmatrix}$

3 $\begin{bmatrix} 0 & 1 & 2 & 0 \\ 1 & 2 & 0 & 0 \\ 2 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$

page 587 Exercise 15D.3

4 The diagram should be:



page 605 Multiple choice questions

2 The matrix should be:

$$\begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 2 & 0 & 1 \\ 1 & 0 & 0 & 2 \\ 1 & 1 & 2 & 0 \end{bmatrix}$$

ANSWERS

page 667 Exercise 1E.1

1 b iii 14

4 d The data is positively skewed with no obvious outliers. The number of novels per household is centred around 40.5 (median) ...

page 668 Exercise 1E.2

9 E

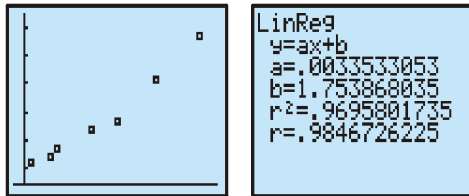
5 a Table should be:

	Plot A	Plot B	Plot C
n	30	29	38
Median	33	48	65
Min	8	20	39
Max	50	66	79
UQ	38	54	70
LQ	27	43	59
IQR	11	11	11
Range	42	46	40

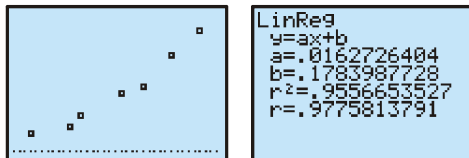
4 a i $y = 16.4 + 4.63x$

4 a ii Number of ice-creams sold = $16.4 + 4.63 \times$ Maximum daily temperature

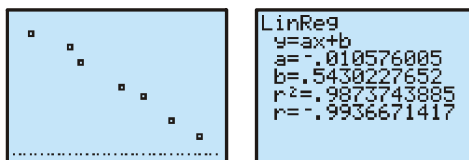
4 d x^2 transformation:



log y transformation:



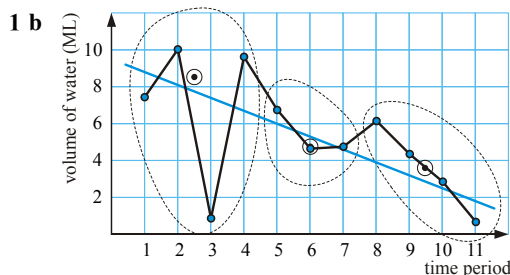
$\frac{1}{y}$ transformation:



All transformations linearise the data so the one with the highest coefficient of determination is the best model, i.e., the $\frac{1}{y}$ transformation.

Equation: $\frac{1}{\text{cherry yield}}$

$= -0.0106 \times \text{the number of frosts} + 0.543$



1 b The distribution of the attendance data is symmetric, centred about a median attendance of 186 people. Attendances were from 105 to 255 with a range of 150. The middle 50% of attendances were from 168 to 203 people with an interquartile range of 35. There is one outlier: on one day the attendance was a low of 105.

9 B

1 e $\$166.05 + \text{interest} = \183.49

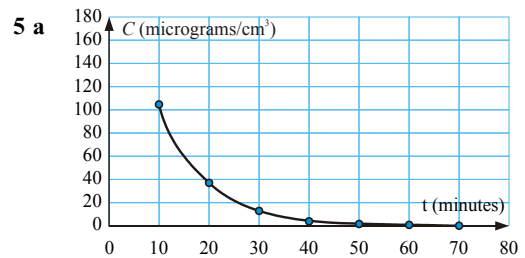
8 $t_2 = \frac{14}{3}, t_6 = 18$

4 41.68 mm

5 a 53.13°

b 106.26°

c 15 mm



5 b i 65 micrograms/cm³

ii 170 micrograms/cm³

iii 130 micrograms/cm³

7 d $x \geq 8, 5x + 4y \geq 100, x + 2y \geq 30$

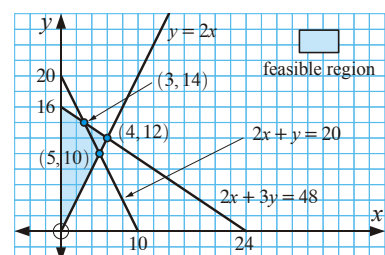
3 $x \geq 40, y \geq 0, y \geq 2x, x + y \leq 150$

8 a $x \geq 3, y \geq 0, 8x + 5y \geq 120$

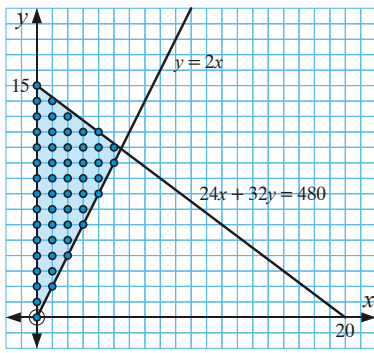
4 Last line should be:

80 loaves and 60 rolls for a maximum profit of \$111.

8 Diagram should be:



14 Diagram should be:



page 699 **Analysis questions C: Book binding**

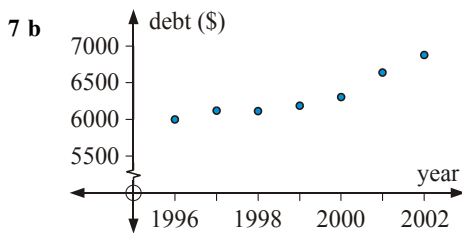
1 e $a = 2$, $b = 3$, $c = -2000$, $d = 2000$

page 700 **Exercise 12B.6**

1 a \$40500

page 700 **Exercise 12D**

7 a \$6120, \$6113.88, \$6187.25, \$6304.81, \$6638.96, \$6877.96



page 701 **Exercise 13B.2**

2 3 years

page 701 **Exercise 13C**

1 \$684, \$672.59, simple interest

page 701 **Exercise 13D**

7 a \$15592.93

7 b \$20655.20 i.e., an additional \$5062.27

page 702 **Exercise 13H**

16 Last sentence should be:

Options have very similar flat rates but the effective rate for Option A is lower hence Option A is financially the better option.

page 703 **Exercise 14A**

4 a 10

4 c 8

4 d 14

page 703 **Exercise 14C**

1 d $\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 2 & 1 & 0 \\ 0 & 1 & 0 & 2 \\ 0 & 0 & 2 & 0 \end{bmatrix}$

1 e $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}$

page 705 **Exercise 14H.1**

5 c iii 37

page 708 **Exercise 15C**

8 d The end road 38.

page 710 **Multiple choice questions**

6 none

page 711 **Analysis questions C [BOS 1998 CAT 3]**

1 c No, C to F.

page 715 **Exercise 17A**

2 f i 67.1%, 32.9%

ii 70.1%, 29.9%

iii 71.3%, 28.7%

page 716 **Multiple choice questions**

5 A and E