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MATHEMATICS FOR YEAR 11 (Sixth Edition) FUNCTIONS, STATISTICS AND CHANCE

Sixth edition - 2006 initial print run

page 28 **EXERCISE 1E.2**

2 Solve for x :

i $x^2 + 6x = 11$

page 179 **PROJECT** table headings should be:

Length (l cm)	Period (T secs)
20	
30	
40	
\vdots	

page 196 **TEXT** Top right corner, line 3 should read:

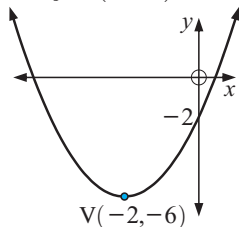
x can take all values except $x = 2$.

So, the domain is $\{x: x \neq 2\}$.

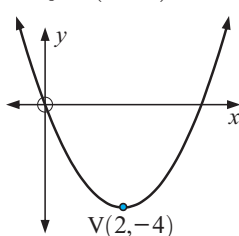
Likewise, the range is $\{y: y \neq 1\}$.

page 375 **ANSWERS EXERCISE 1D**

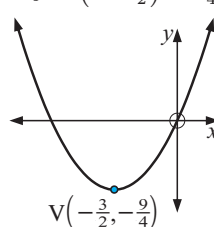
1 b $y = (x + 2)^2 - 6$



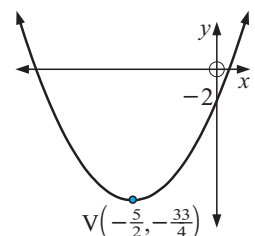
c $y = (x - 2)^2 - 4$



d $y = (x + \frac{3}{2})^2 - \frac{9}{4}$



e $y = (x + \frac{5}{2})^2 - \frac{33}{4}$



page 376 **ANSWERS EXERCISE 1E.2**

2 i $x = -3 \pm \sqrt{20}$

page 381 **ANSWERS EXERCISE 1N.3**

4 b $y = a(x + 2)(x^2 + 1)$, $a \neq 0$

page 383 **ANSWERS EXERCISE 1O.2**

2 b -26

page 391 **ANSWERS EXERCISE 2E.5**

4 1000

page 392 **ANSWERS EXERCISE 2G.2**

1 b $y = 9.93x + 39.5$

page 400 **ANSWERS EXERCISE 3G**

1 h ii no VA exists, HA is $y = -4$

page 414 **ANSWERS EXERCISE 4M**

1 b iii 3

page 414 **ANSWERS EXERCISE 4N**

8 174 - 193 cm

page 415 **ANSWERS EXERCISE 4P**

3 a 0.0778 **b** 0.0154 **c** 0.317 **d** 0.913

8 a 0.130



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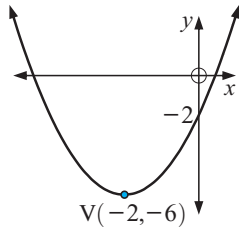
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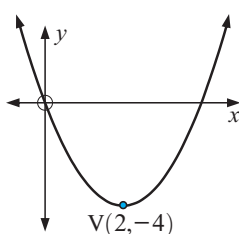
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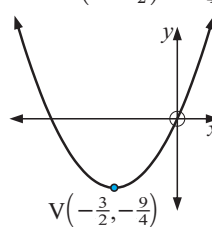
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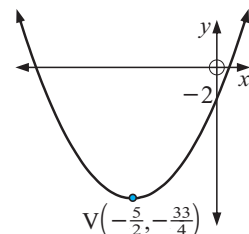
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page 391 ANSWERS EXERCISE 2E.5

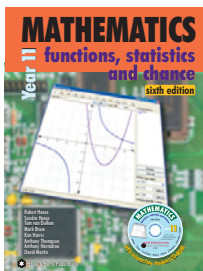
4 1000

page 414 ANSWERS EXERCISE 4N

3 40.1%

page 414 ANSWERS EXERCISE 4O

3 g 26



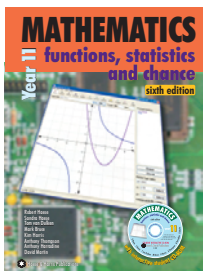
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MATHEMATICS FOR YEAR 11 (Sixth Edition) FUNCTIONS, STATISTICS AND CHANCE

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page 414 ANSWERS EXERCISE 4N

3 40.1%



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MATHEMATICS FOR YEAR 11 (Sixth Edition) FUNCTIONS, STATISTICS AND CHANCE

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page 329 **REVIEW SET 4E**

- 7** Suppose X is $\text{Bin}(40, 0.4)$
- a** What are the mean and standard deviation of X ?
 - b** What proportion of the outcomes of X would you expect to lie within 2 standard deviations of the mean?