

# Chapter 5 Diagnostic Test

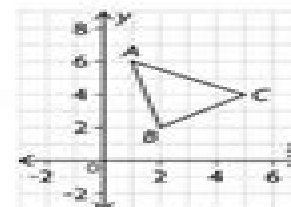
STUDENT BOOK PAGES 244–307

1. a) Complete this table of values for the relation  $y = 2x^2 - 5$ .  
 b) Plot the points, and sketch the graph.

|     |    |    |    |   |   |   |   |
|-----|----|----|----|---|---|---|---|
| $x$ | -3 | -2 | -1 | 0 | 1 |   | 3 |
| $y$ | 13 |    |    |   |   | 3 |   |

2. a) Sketch the graph of the relation  $y = 2x - 3$ .  
 b) Sketch the reflection of  $y = 2x - 3$  in the  $x$ -axis.  
 c) Determine the equation of the line you sketched for part b).
3. a) Determine the zeros of the relation  $y = 3(x - 1)(x - 5)$ .  
 b) Is the relation quadratic? Explain how you know.  
 c) Sketch the relation.  
 d) Determine the coordinates of the vertex of the relation, if there is a vertex, or explain why this is impossible to do.

4. For each translation, determine  
 a) the vertices of  $\triangle ABC$  after a translation 3 units left and 2 units up  
 b) the equation of the relation  $y = -x + 6$  after a translation 2 units up  
 c) the coordinates of the points  $(-2, 4)$ ,  $(-1, 1)$ ,  $(0, 0)$ , and  $(1, 1)$  after a translation that moves  $(2, 4)$  to  $(4, 7)$



5. Ricardo performed the following calculation:

$$\begin{aligned} 3(4 - 2)^2 + 7 \\ = 3(2)^2 + 7 \\ = 6^2 + 7 \\ = 36 + 7 \\ = 43 \end{aligned}$$

What error did Ricardo make?

6. Braking distances for a pickup truck that is travelling at different speeds are shown in this table.

|                      |    |    |    |     |     |     |     |
|----------------------|----|----|----|-----|-----|-----|-----|
| Speed (km/h)         | 30 | 45 | 60 | 75  | 90  | 105 | 120 |
| Braking Distance (m) | 22 | 45 | 74 | 105 | 145 | 211 | 252 |

- a) Use the data to create a scatter plot.  
 b) Sketch a line of good fit for the data. How well does the line appear to fit the data?  
 c) Sketch a curve of good fit for the data. How well does the curve appear to fit the data?  
 What kind of relation might the curve be?
7. Factor, if possible.
- a)  $x^2 + 2x - 3$                       b)  $4x^2 - 9$                       c)  $2x^2 + 7x + 15$                       d)  $x^2 - 6x + 8$

# Chapter Test Nelson

**Henry Alfred Gardner**



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