

# Chapter 5 Diagnostic Test

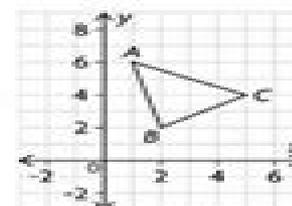
STUDENT BOOK PAGES 244–307

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

**J Spring**



**Chapter Test Nelson:**

## **Chapter Test Nelson** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Chapter Test Nelson**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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