

Chapter 5 Diagnostic Test

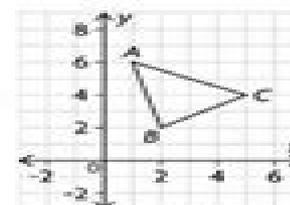
STUDENT BOOK PAGES 244–307

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) $x^2 - 6x + 8$

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