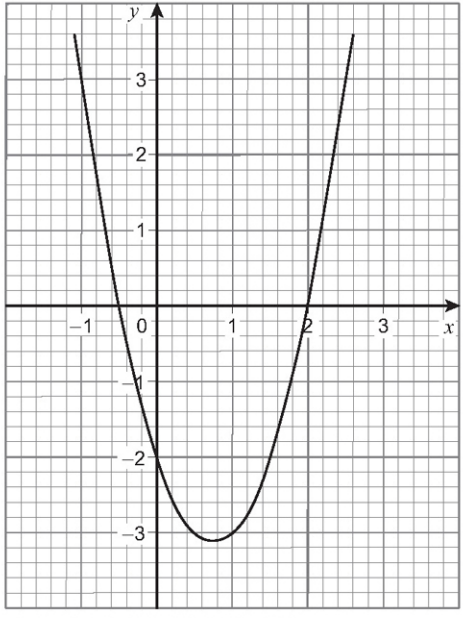
4 The graph with equation $y = 2x^2 - 3x - 2$ is shown on the diagram.



Shade the region defined by the inequalities

$$y \geq 2x^2 - 3x - 2 \quad \text{and} \quad y < x - 2$$

[3 marks]