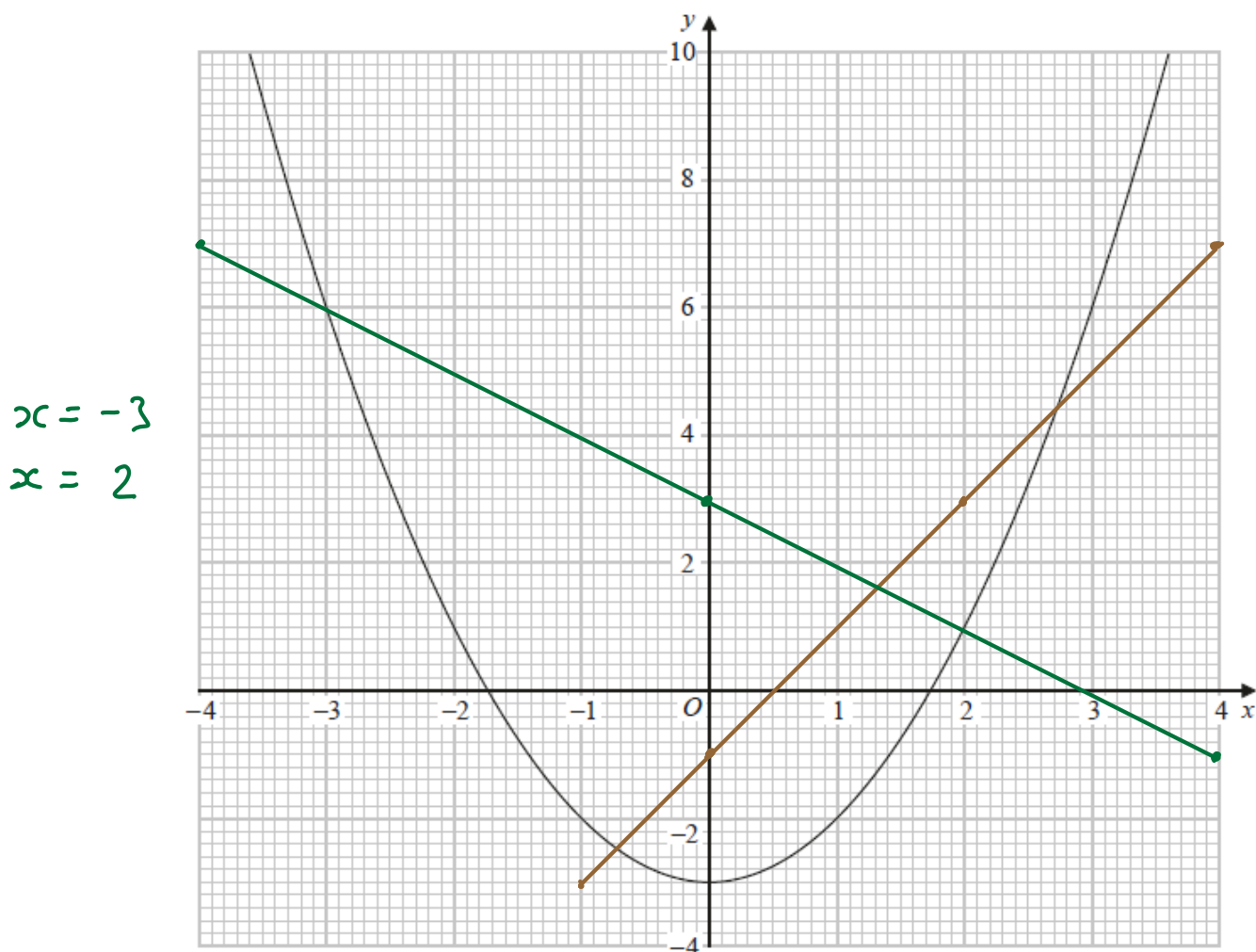


Questions

Q1.

Here is the graph of $y = x^2 - 3$



Use the graph to find estimates for the solutions to the equation $x^2 - 2x - 2 = 0$
You must show how you get your solutions.

$$x = 2.7, x = -0.7$$

(Total for question = 4 marks)

$$y = x^2 - 3$$

$$0 = x^2 - 2x - 2$$

$$+2x - 1 = +2x - 1$$

$$2x - 1 = x^2 - 3$$

Draw graph of $y = 2x - 1$

$$x \quad -1 \quad 0 \quad 2 \quad 4$$

$$y \quad -3 \quad -1 \quad 3 \quad 7$$

$$y = x^2 - 3$$

Solve $0 = x^2 + x - 6$

$$-x + 3 = -x + 3$$

Draw graph of $y = -x + 3$

$$x \quad -4 \quad 0 \quad 4$$

$$y \quad 7 \quad 3 \quad -1$$