



Maths
Junior Certificate
Ordinary Level

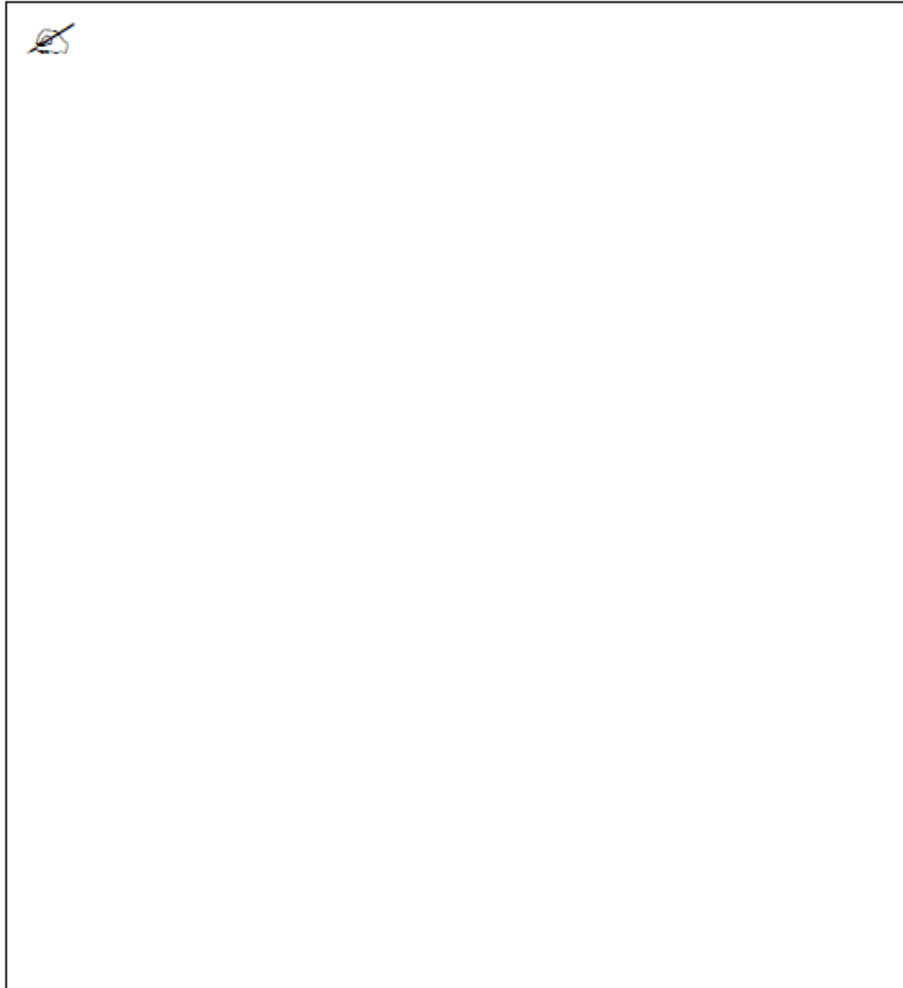
Past Exam Questions on
Quadratic Graphs

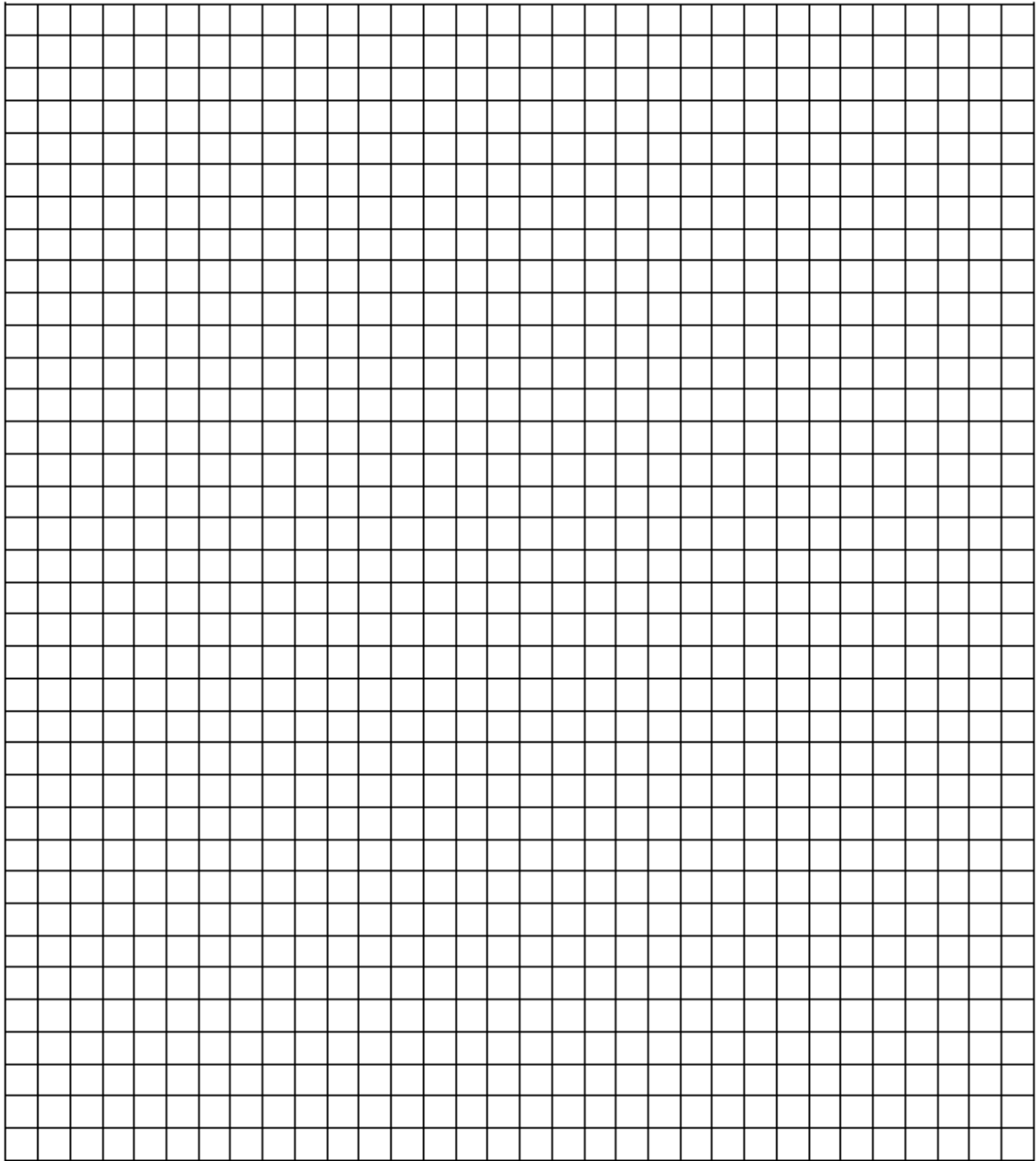
Q6 Part (b) 2012 Paper 1

(b) Draw the graph of the function

$$f: x \rightarrow 5 + 2x - x^2$$

in the domain $-2 \leq x \leq 4$, where $x \in \mathbb{R}$.





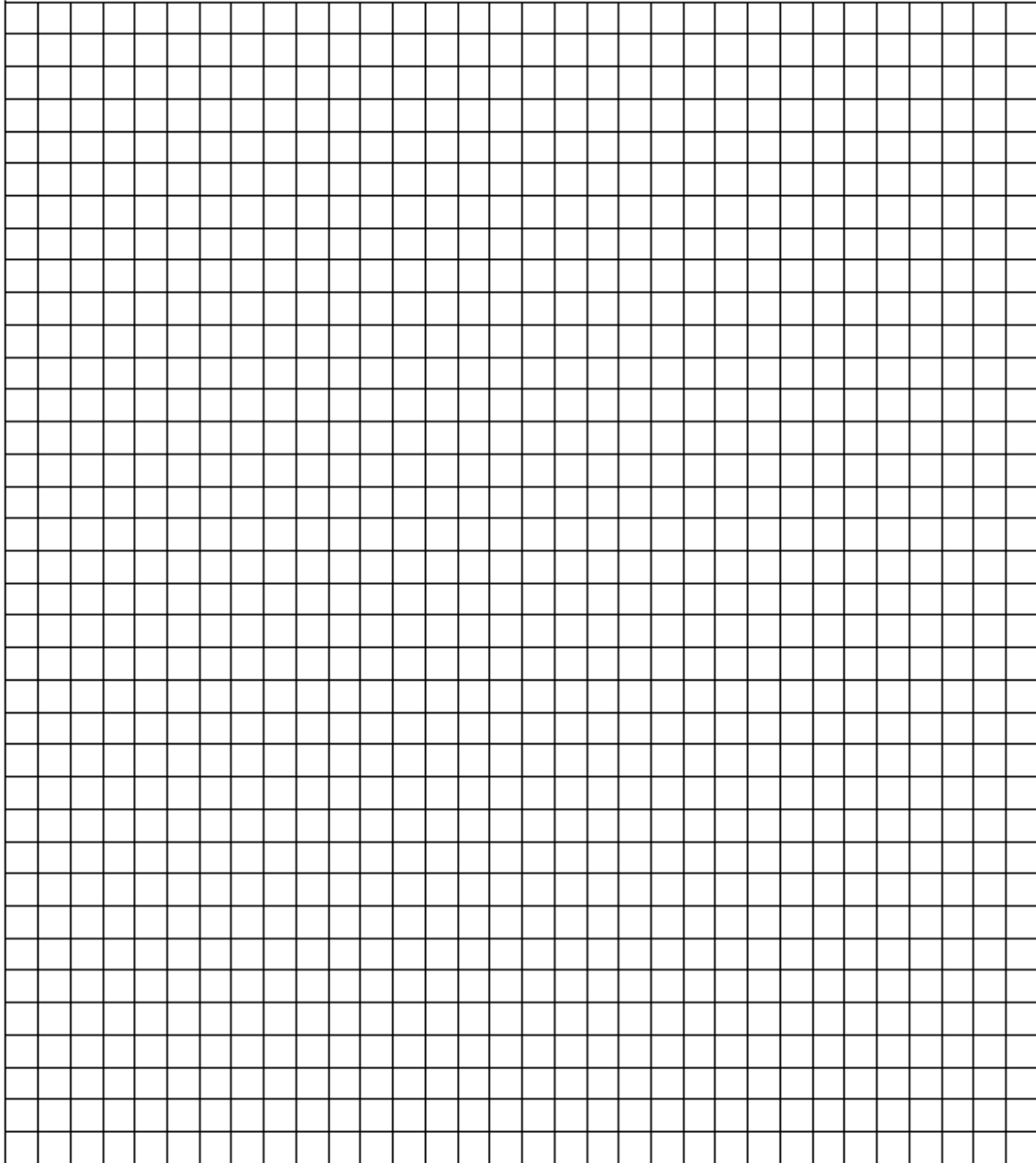
Q6 2010 Paper 1 Part (b) & (c)

(b) Draw the graph of the function


$$f: x \rightarrow 3 + 2x - x^2$$

in the domain $-1 \leq x \leq 3$, where $x \in \mathbf{R}$.






- (c) (i) Draw the axis of symmetry of the graph you have drawn in part (b) above.

 Work to be shown on the graph.

- (ii) Use the graph you have drawn in part (b) to estimate the value of $3 + 2x - x^2$ when $x = 2.5$.

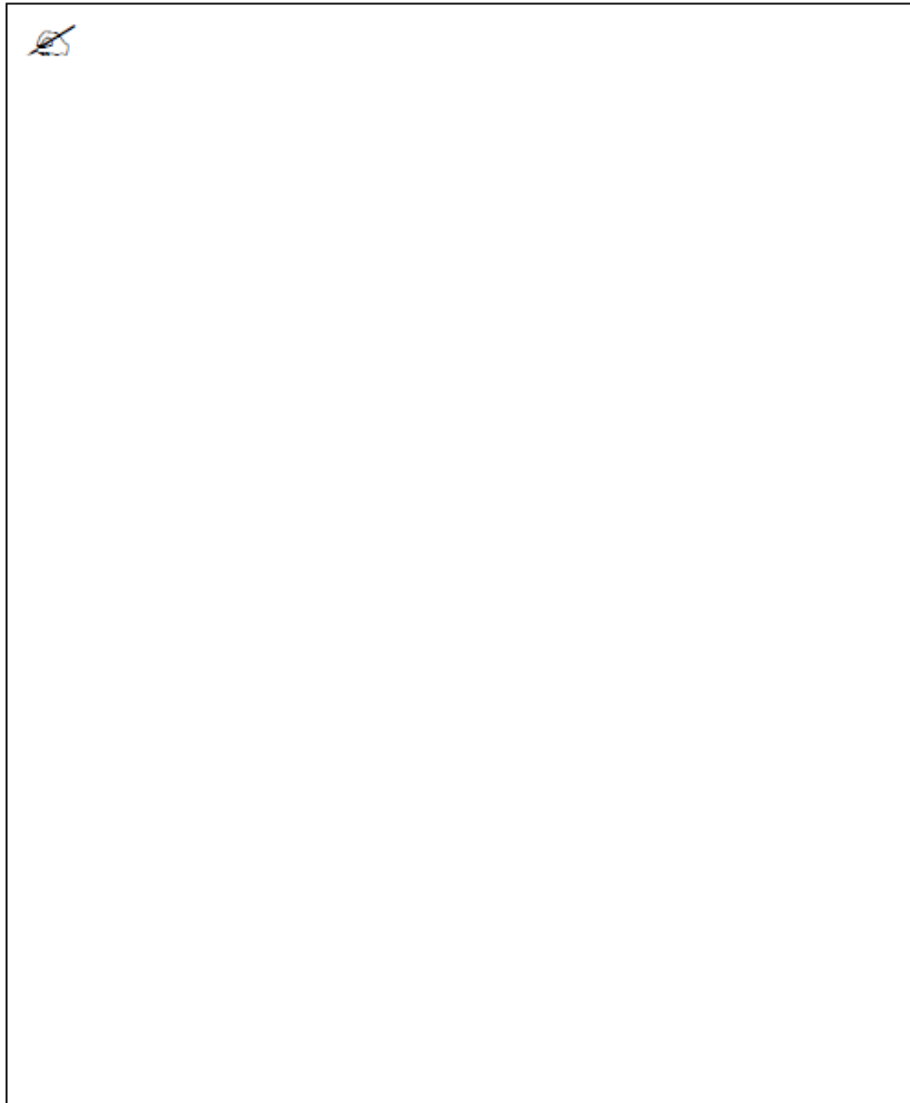
 Work to be shown on the graph and answer to be written here.

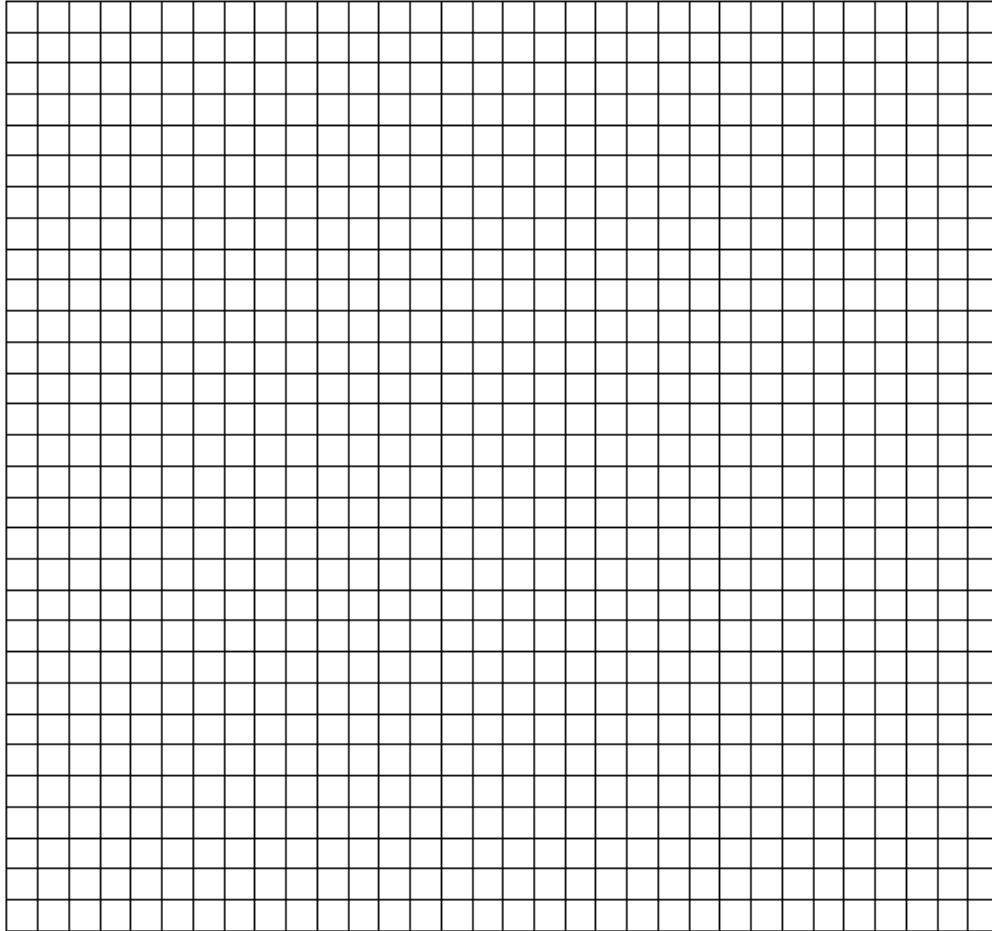
Q6 2009 Paper 1

6(b) Draw the graph of the function

$$f: x \rightarrow x^2 - 2x - 1$$


in the domain $-1 \leq x \leq 3$, where $x \in \mathbf{R}$.






6(c) Use the graph drawn in 6(b) to estimate:

- (i) the values of x for which $x^2 - 2x - 1 = 0$

 Work to be shown on the graph and answer to be written here.

- (ii) the value of $f(x)$ when $x = 1.5$.

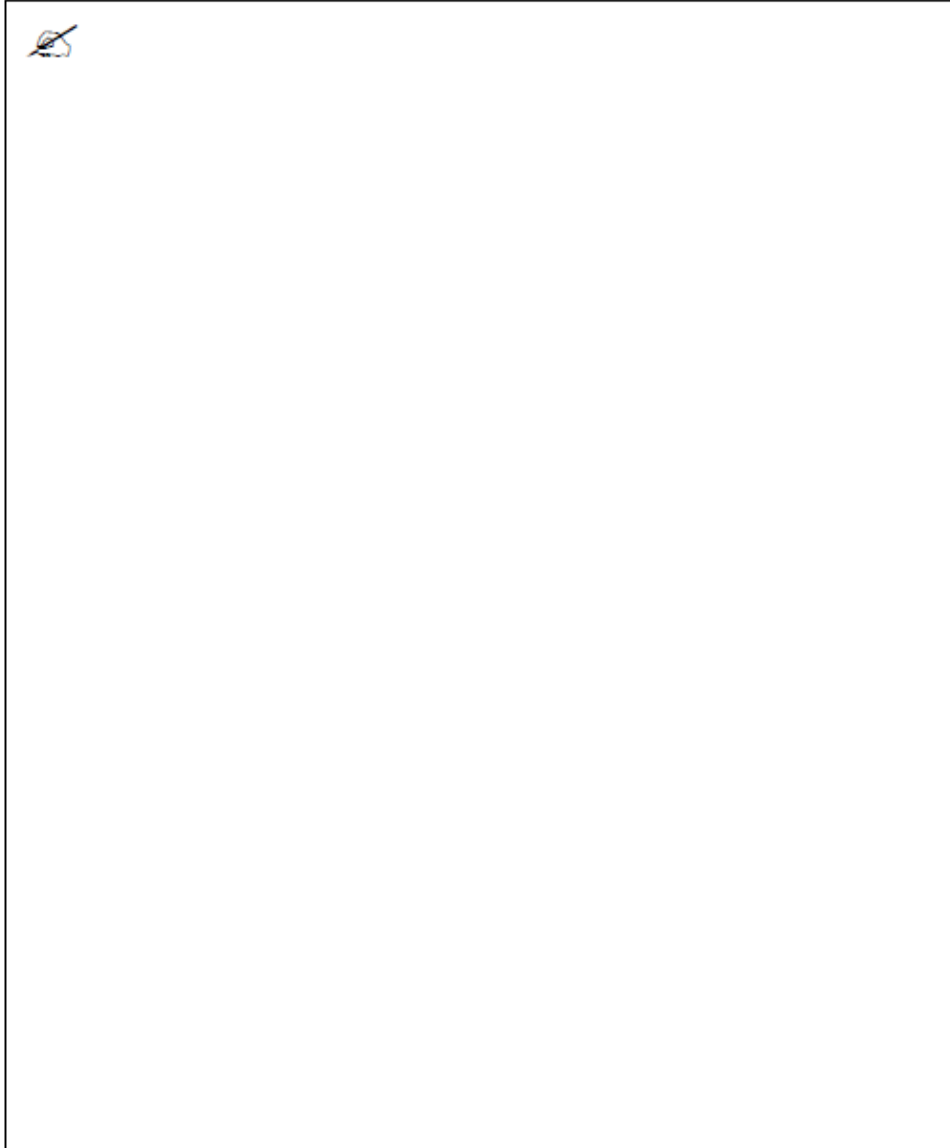
 Work to be shown on the graph and answer to be written here.

Q6 Part (b) 2008 Paper 1

6(b) Draw the graph of the function

$$f: x \rightarrow x^2 - 3x - 1$$

in the domain $-1 \leq x \leq 4$, where $x \in \mathbf{R}$.



Q6 Part (a) 2007 Paper 1

6. (a) $P = \{(1,3) (4,6) (5,8) (7,9)\}$
Write out the domain and range of P .

Domain =

Range =

Q6 Part (b) 2006 Paper 1

6(b) Draw the graph of the function

$$f: x \rightarrow 1 + 4x - x^2$$

in the domain $-1 \leq x \leq 5$, where $x \in \mathbf{R}$.

