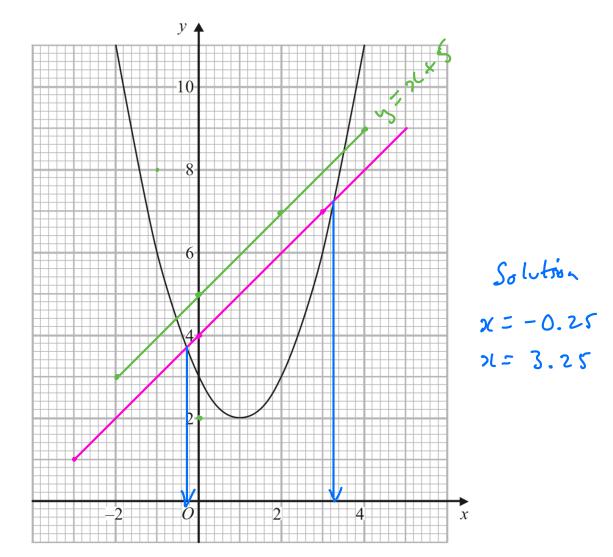
## **Estimating Solutions to Eqns From Graphs**

**20** The diagram shows part of the graph of  $y = x^2 - 2x + 3$ 



Solutions >C = -0.5 >C = 3.5

(a) By drawing a suitable straight line, use your graph to find estimates for the solutions of  $x^2 - 3x - 1 = 0$ 

$$y = x^{2} - 2x + 3$$

$$0 = x^{2} - 3x - 1$$

$$x + 4 = + x + 4$$

$$3x + 4 = x + 4$$

$$3x + 4 = x + 4$$

Now use the same graph to find estimates to the solutions of the following equation

$$x^{2} - 3x - 2 = 0$$

$$+x + 5 = x + 5$$

$$x^{2} - 2x + 3 = y$$

$$2x + 3 = y$$

$$3x - 2x + 5$$

$$x - 2x + 5$$