

(C1-2.1) Name:

## Homework Questions 1 – Plotting Quadratic Equations

1. Plot the following quadratic equations on graph paper (take the values of x from 4 to -4)

a)  $y = (x + 2)^2$

b)  $y = -x^2$

c)  $y = x^2 + 3$

d)  $y = -x^2 - 2$

e)  $y = x^2 - x - 6$

2. State the minimum value of y for each of the graphs drawn above and the value of x at this point.

a)  $y = (x + 2)^2$

b)  $y = -x^2$

c)  $y = x^2 + 3$

d)  $y = -x^2 - 2$

e)  $y = x^2 - x - 6$

3. State the line of symmetry for each of the graphs drawn above

a)  $y = (x + 2)^2$

b)  $y = -x^2$

c)  $y = x^2 + 3$

d)  $y = -x^2 - 2$

e)  $y = x^2 - x - 6$