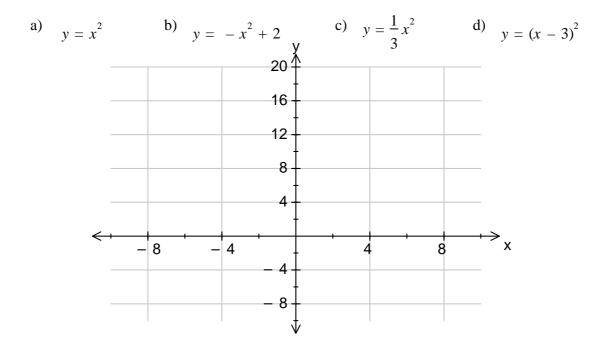
## **Homework Questions 5 – Parabola Graphs**

1. Plot the following graphs on the axis below



## 2. Find the y intercept of the following graphs

- a)  $y = x^2 6$
- b)  $y = (x 3)^2$
- c)  $y = -x^2 + 2$

d) 
$$y = -(x + 1)^2 + 3$$

Y intercept =

Y intercept =

Y intercept =

Y intercept =

- 3. Find the x intercept of the following graphs
  - a) y = (x + 3)(x 6)
  - b) y = x(x + 9)

X intercept =

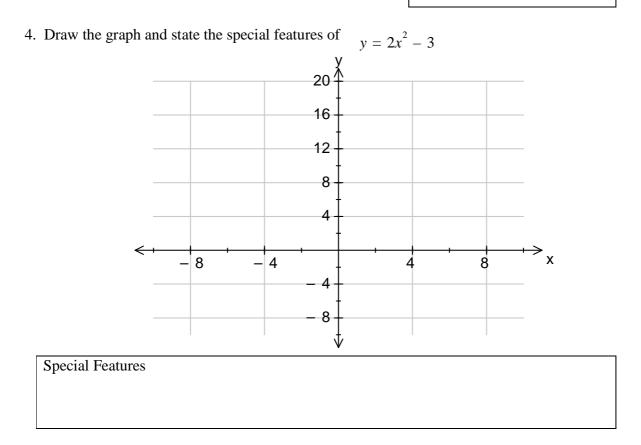
X intercept =

c) 
$$y = x^2 + 7x + 12$$

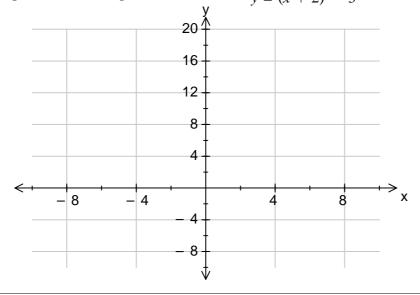
d)  $y = 3x^2 + 10x - 8$ 

X intercept =

X intercept =



5. Draw the graph and state the special features of  $y = (x + 2)^2 - 3$ 



## Special Features