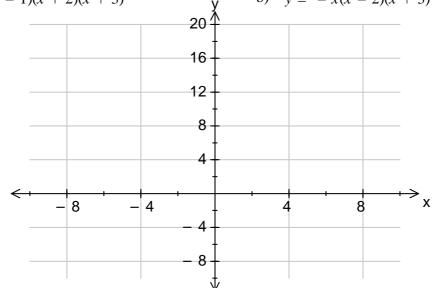
(C1-4.1) Name:

Homework Questions 1 – Cubic Graphs

- 1. Plot the following graphs on the axis below
 - a) y = (x 1)(x + 2)(x + 3)

b) y = -x(x-2)(x+3)



2. Find the y intercept of the following graphs

a)
$$y = (x + 4)(x - 2)(x + 6)$$

Y intercept =

b)
$$y = x(x - 3)(x + 5)$$

Y intercept =

c)
$$y = (x - 4)(x - 1)(x + 2)$$

Y intercept =

d)
$$y = (x - 9)(3x + 2)(5x - 1)$$

Y intercept =

3. Find the x intercepts of the following graphs

a)
$$y = (x - 6)(x - 4)(x - 2)$$

X intercept =

b)
$$y = x(x + 3)(x - 5)$$

X intercept =

c)
$$y = (2x - 3)(x - 7)(7x - 2)$$

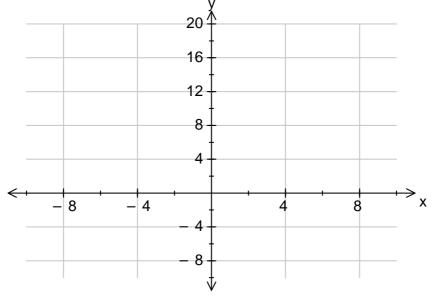
X intercept =

d)
$$y = (3x + 2)(x - 4)(4x - 1)$$

X intercept =

4. Draw the graph and state the special features of

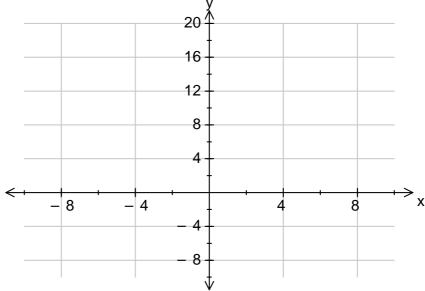
$$y = (x - 2)(x - 1)(x + 1)$$



Special Features

5. Draw the graph and state the special features of

$$y = x^3 - 9x$$



Special Features