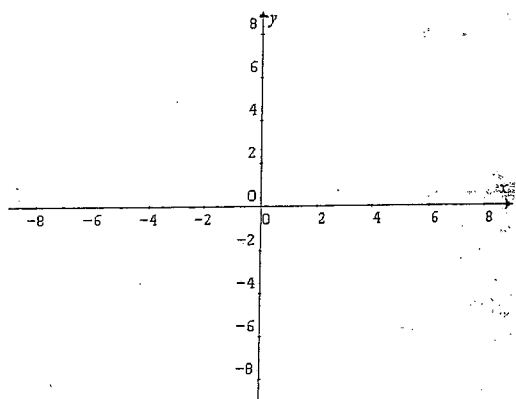


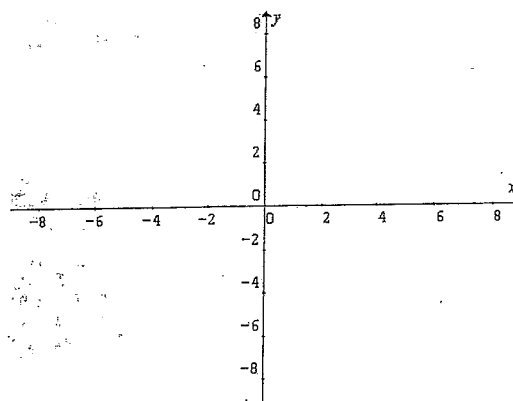
## Exercises – Sketching Polynomial Functions

Sketch the graphs of each of the following polynomial equations, (give the  $x$ -intercepts)

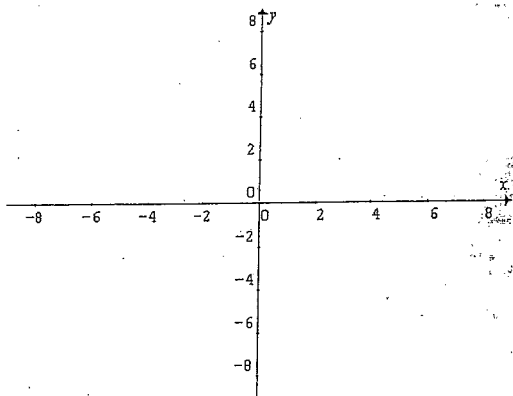
i)  $y = x^3 - 2x^2 - 3x$



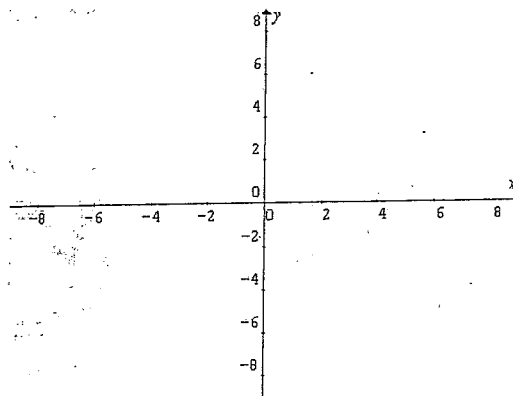
ii)  $y = 9x - x^3$



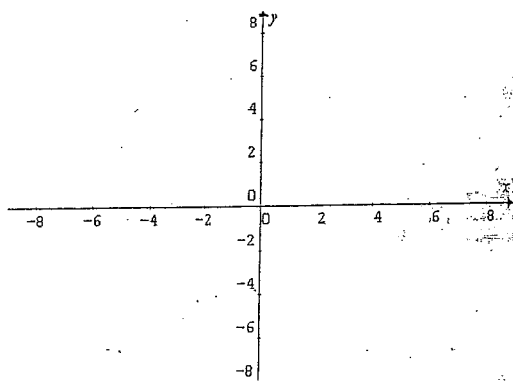
iii)  $y = x(x-2)(x+1)(x-1)$



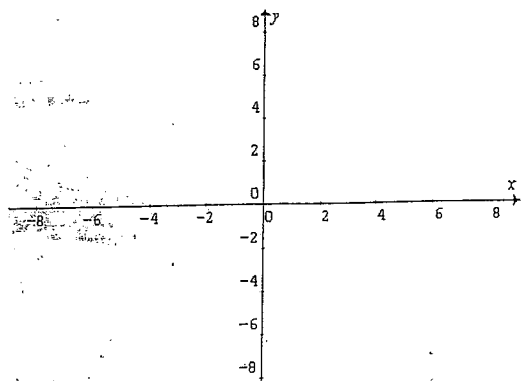
iv)  $y = x(2-x)(x+1)(x+3)$



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

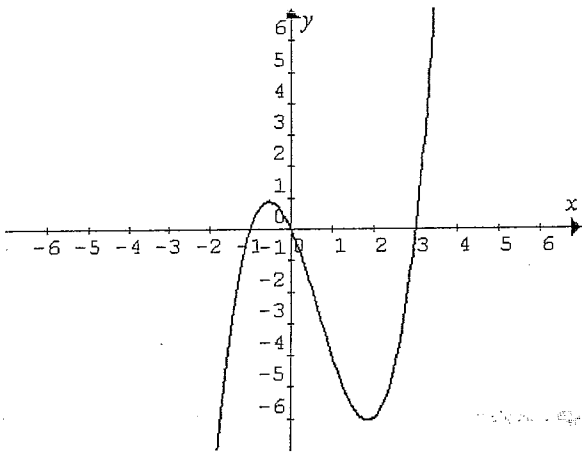


vi)  $y = x^3(x+2)^2(1-x)$

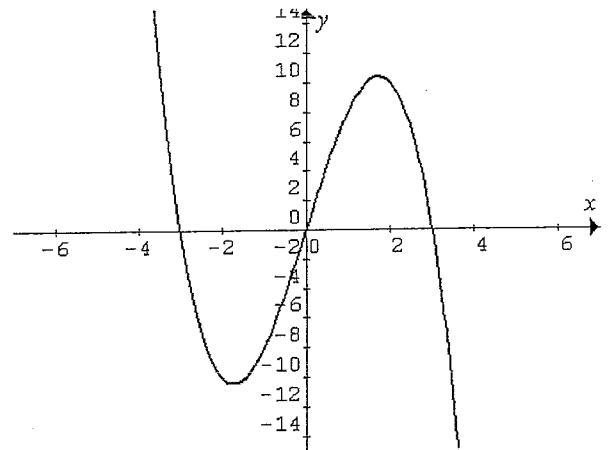


Answers: (B)

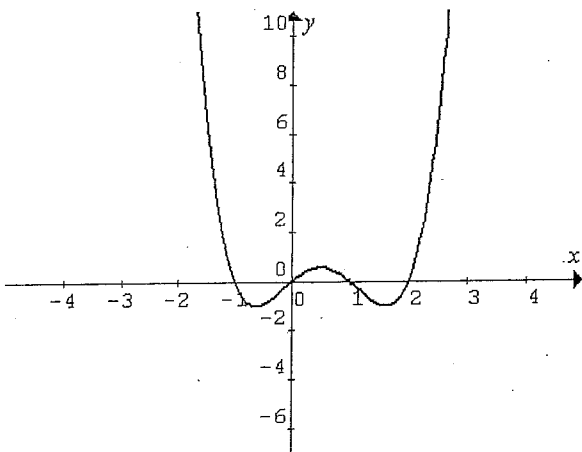
(i)



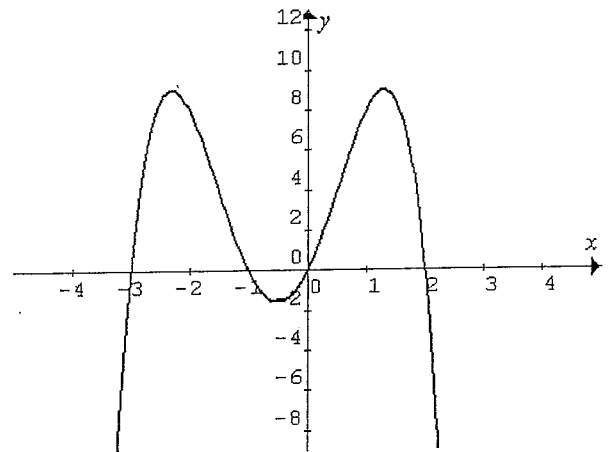
(ii)



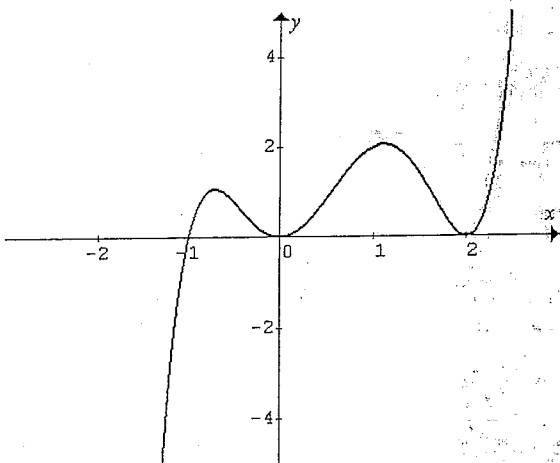
(iii)



(iv)



(v)



(vi)

