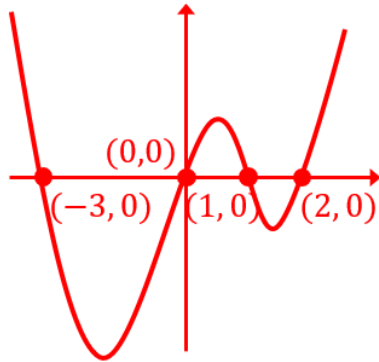


Sketching Quartics

Sketch the following curves and indicate clearly the points of intersection with the axes.

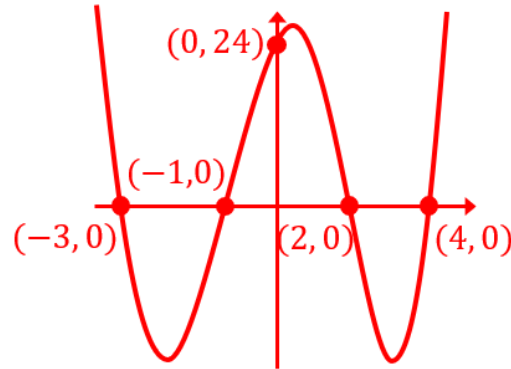
(a)

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



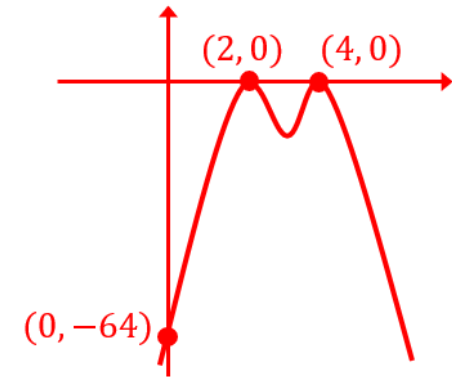
(b)

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



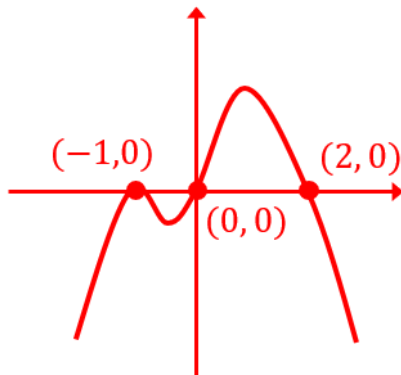
(c)

$$y = -(x - 4)^2(x - 2)^2$$



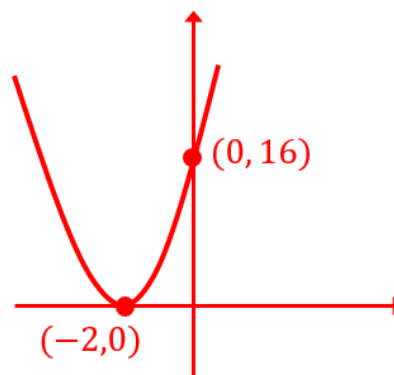
(d)

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



(e)

$$y = (x + 2)^4$$



(f)

$$y = (x^2 - 4x - 5)(x^2 + 3x - 4)$$

