

Sketching Cubics

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

(a)

$$y = x(x - 5)(x + 2)$$

(b)

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

(c)

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

(d)

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

(e)

$$y = x^3 + x^2 - 2x$$

(f)

$$y = 9x - 4x^3$$