









4.

Figure 1

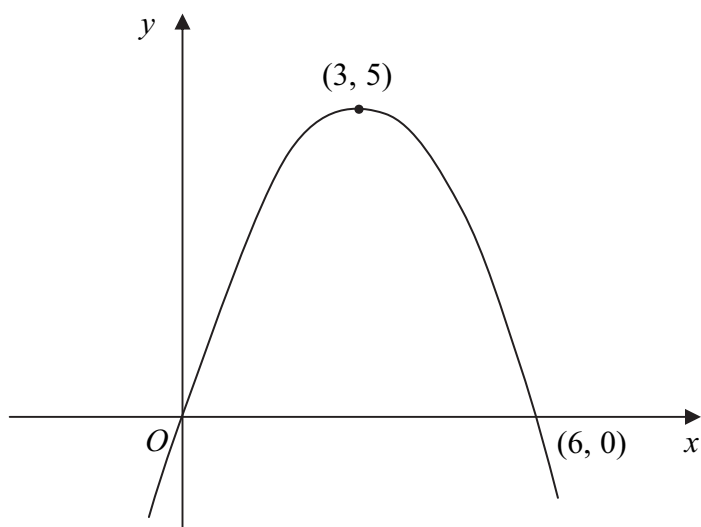


Figure 1 shows a sketch of the curve with equation  $y = f(x)$ . The curve passes through the origin  $O$  and through the point  $(6, 0)$ . The maximum point on the curve is  $(3, 5)$ .

On separate diagrams, sketch the curve with equation

(a)  $y = 3f(x)$ , (2)

(b)  $y = f(x + 2)$ . (3)

On each diagram, show clearly the coordinates of the maximum point and of each point at which the curve crosses the  $x$ -axis.





















