

4.

Figure 1

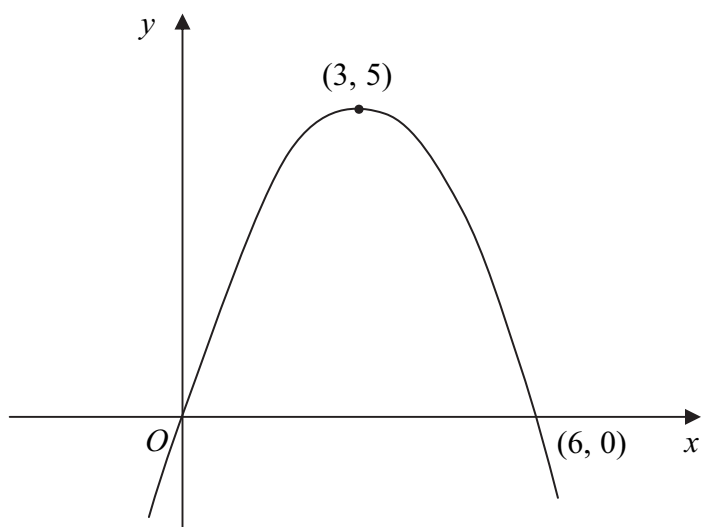


Figure 1 shows a sketch of the curve with equation $y = f(x)$. The curve passes through the origin O and through the point $(6, 0)$. The maximum point on the curve is $(3, 5)$.

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.



