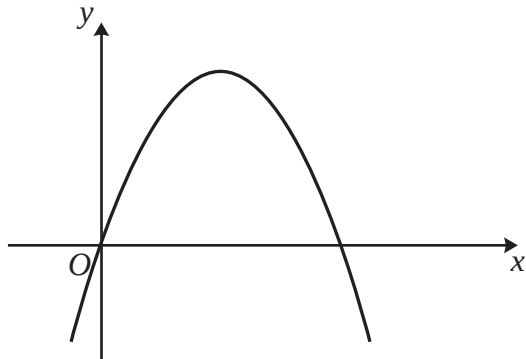




The diagram shows the curve $y = ax(x - b)$, where a and b are constants and $b > 0$.

- (a) Given that the curve has a stationary point at $x = 3$, state the value of b . [1]
- (b) Given also that the stationary point at $x = 3$ is a maximum, state what can be deduced about the value of a . [1]
- (c) Find the y -coordinate of the stationary point, giving your answer in terms of a . [1]
- (d) State the range of values of x for which the curve is increasing. [1]