3 The function f is defined by $f(x) = (x-a)(x-b)(x-c)(x-d)$ where a, b, c and d are constants which are all different.

Only one of the following curves could be the graph of $y = f(x)$.

Fig. 1

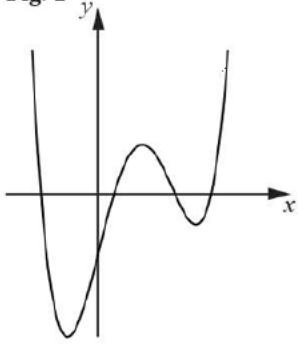


Fig. 2

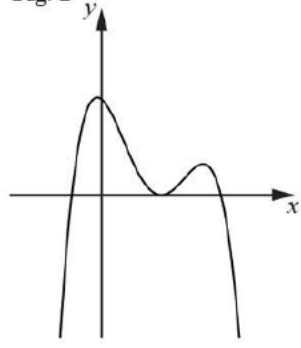


Fig. 3

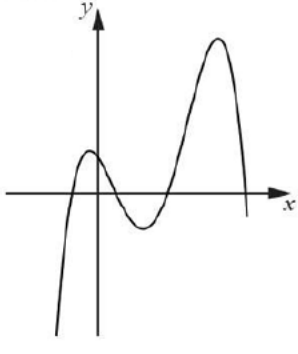
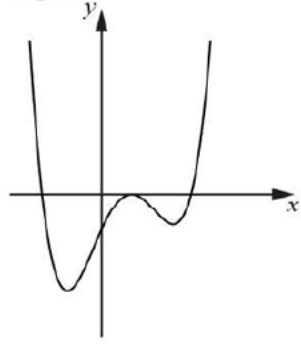


Fig. 4



(a) Identify the curve that could be the graph of $y = f(x)$. **[1]**

(b) For each of the other three curves, give a reason why it could **not** be the graph of $y = f(x)$. **[2]**