I Do

The curve $y = f(x)$ has a minimum point at $(5, -4)$.

Write down the coordinates of the minimum point for each curve.

(i) $y = f(x+7)$
(ii) $y = f(x) - 6$

We Do

The curve $y = f(x)$ has a minimum point at $(-3, 2)$.

Write down the coordinates of the minimum point for each curve.

(i) $y = f(x-4)$
(ii) $y = f(x) + 5$

You Do

The curve $y = f(x)$ has a maximum point at (2, 7).

Write down the coordinates of the maximum point for each curve.

(i) $y = f(x+3)$
(ii) $y = f(x) - 8$

Challenge

The curve $y = f(x)$ has a minimum point at (a, b).

Write down the coordinates of the minimum point for each curve.

(i) $y = f(x-h)$
(ii) $y = f(x) + k$

Answers

I Do: (i) $(-2, -4)$; (ii) $(5, -10)$.

We Do: (i) $(1, 2)$; (ii) $(-3, 7)$.

You Do: (i) $(-1, 7)$; (ii) $(2, -1)$.

Challenge: (i) $(a + h, b)$; (ii) $(a, b + k)$.