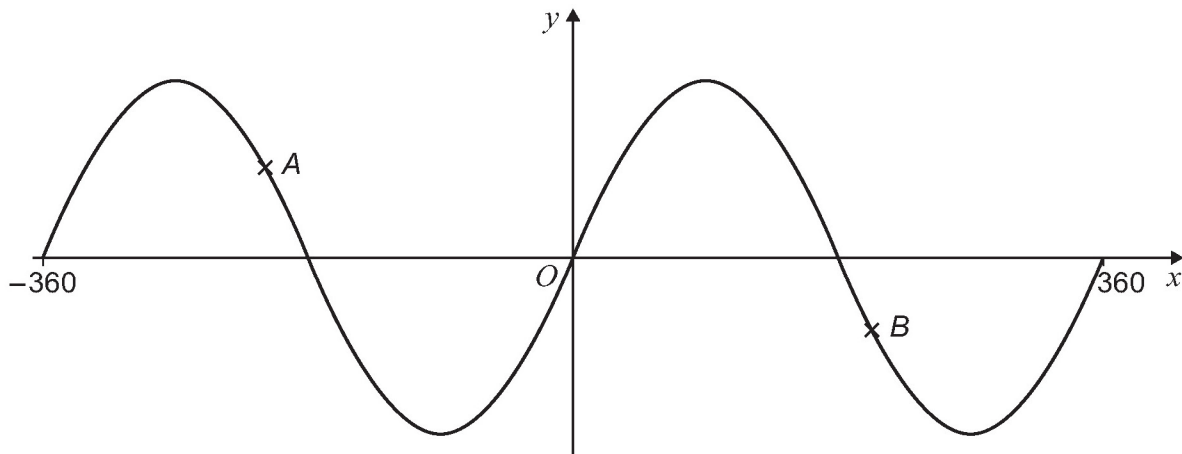**10**   The curve with equation

$$y = \sin x°$$

for $-360 \le x \le 360$ is shown below.

10 (a)   Point A on the curve has coordinates $(a, 0.5)$

10 (a) (i)   Find the value of a

[2 marks]

10 (a) (ii)   State the value of $\sin(180° - a°)$

[1 mark]

10 (b)   Point B on the curve has coordinates $\left(b, -\dfrac{3}{7}\right)$

10 (b) (i)   Find the exact value of $\sin(b° - 180°)$

[2 marks]

10 (b) (ii)   Find the exact value of $\cos b°$

[3 marks]