

EXERCISE 2

Sketch the graphs of each of the following functions on separate axes. Write down the maximum and minimum values, amplitude and period of each function:

(a) $y = \cos 2x$ for $x \in [-45^\circ; 315^\circ]$

(b) $y = \cos \frac{1}{2}x$ for $x \in [-360^\circ; 720^\circ]$

(c) $y = \sin 3x$ for $x \in [0^\circ; 360]$

(d) $y = \tan \frac{1}{2}x$ for $x \in [0^\circ; 360]$

(e) $y = -2\sin 2x$ for $x \in [-90^\circ; 180^\circ]$

(f) $y = \frac{1}{2}\cos 2x$ for $x \in [-90^\circ; 180^\circ]$

(g) $y = \sin \frac{1}{3}x + 1$ for $x \in [0^\circ; 1080^\circ]$