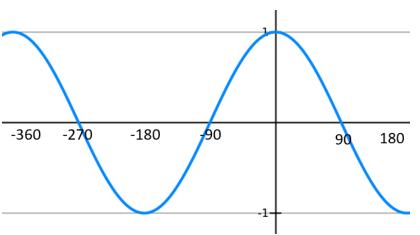
9.5) Graphs of sine, cosine and tangent

Worked	example
	champic

Your turn

Sketch the graph of $y = \sin x$, $-180 \le x \le 360^{\circ}$

Sketch the graph of $y = \cos x$, $-360 \le x \le 180^{\circ}$



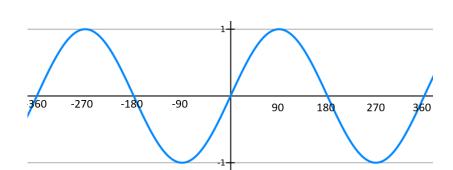
Worked example

A sketch of $y = \sin x$, $-360^{\circ} \le x \le 360^{\circ}$ is

shown.

Given that $\sin 30 = \frac{1}{2}$, find:

- a) $sin(150^\circ)$
- b) $\sin(-300^{\circ})$
- c) sin(330°)
- d) $\sin(-210^{\circ})$

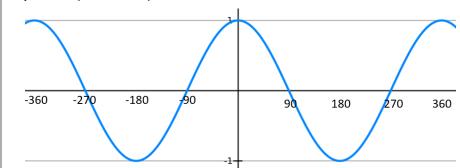


Your turn

A sketch of $y = \cos x$, $-360^{\circ} \le x \le 360^{\circ}$ is shown.

Given that $\cos 30 = \frac{\sqrt{3}}{2}$, find:

- a) $cos(-30^\circ)$
- b) cos(330°)
- c) cos(150°)
- d) $cos(-210^\circ)$



- a) $\frac{\sqrt{3}}{2}$
- b) $\frac{\sqrt{2}}{2}$
- c) $-\frac{\sqrt{2}}{2}$
- d) $-\frac{\sqrt{}}{2}$

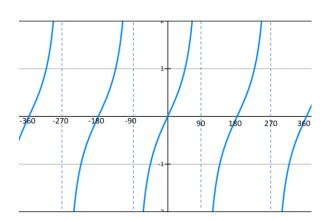
Worked example

Your turn

A sketch of $y = \tan x$, $-360^{\circ} \le x \le 360^{\circ}$ is shown.

Given that $\tan 60 = \sqrt{3}$, find:

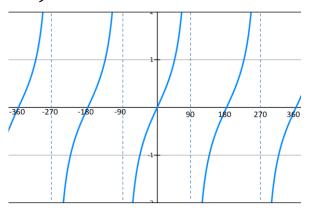
- a) $tan(-60^\circ)$
- b) $tan(-300^\circ)$
- c) tan(120°)



A sketch of $y = \tan x$, $-360^{\circ} \le x \le 360^{\circ}$ is shown.

Given that $\tan 30 = \frac{\sqrt{3}}{3}$, find:

- a) $tan(-30^\circ)$
- b) $tan(-330^{\circ})$
- c) tan(150°)



a)
$$-\frac{\sqrt{3}}{3}$$

b)
$$\frac{\sqrt{3}}{3}$$

c)
$$-\frac{\sqrt{3}}{3}$$