Name:

Exam Style Questions



Trigonometric Graphs

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

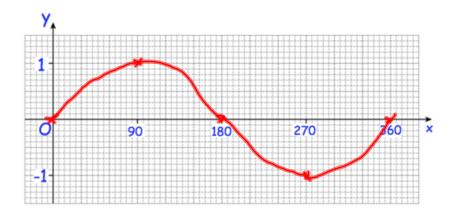
Revision for this topic

www.corbettmaths.com/contents

Video 338 Video 339 Video 340

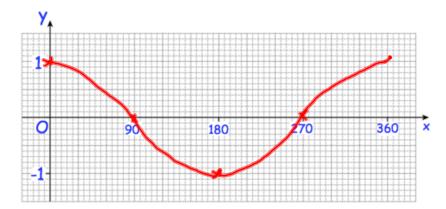


1. Sketch the graph of $y = \sin x$ for $0 \le x \le 360$.

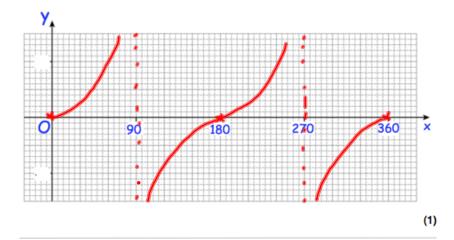


(1)

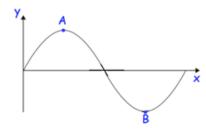
2. Sketch the graph of $y = \cos x$ for $0 \le x \le 360$.



3. Sketch the graph of $y = \tan x$ for $0 \le x \le 360$.



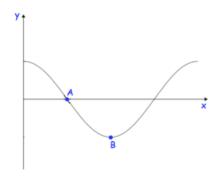
4. Shown is part of the curve $y = \sin x$



(a) Write down the coordinates of the point A.

(b) Write down the coordinates of the point B.

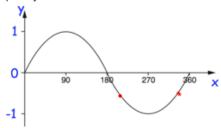
5. Shown is part of the curve $y = \cos x$



(a) Write down the coordinates of the point A.

(b) Write down the coordinates of the point B.

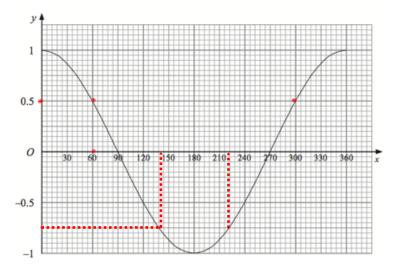
6. Here is the graph of $y = \sin x$ for $0 \le x \le 360$.



One solution of $\sin x = -0.5$ is $x = 210^{\circ}$

Find another solution of $\sin x = -0.5$

7. Here is a graph of $y = \cos x$ for $0 \le x \le 360$.

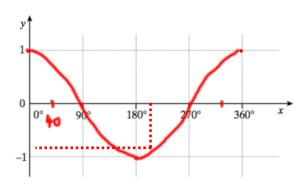


(a) Use your graph to solve $\cos x = 0.5$ for $0 \le x \le 360$.

(b) Use your graph to solve $\cos x = -0.5$ for $0 \le x \le 360$.

(c) Use your graph to solve $\cos x = -0.75$ for $0 \le x \le 360$.

8. (a) Sketch the graph of $y = \cos x$ for $0 \le x \le 360$.



One solution of the equation $\cos x = 0.766$ is $x = 40^{\circ}$

(b) Find the other solution of this equation for $0 \le x \le 360$.



(c) Use your sketch to work out the value of cos 200°