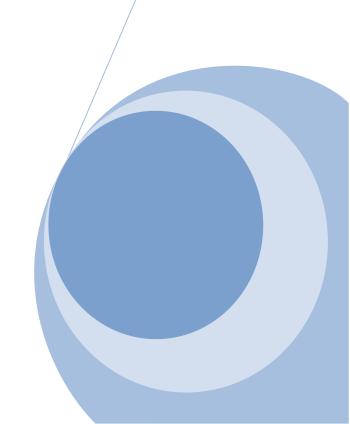


## **GCSE Maths - Higher**

Trigonometric Graphs

**Assignment Questions** 

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## **Trigonometric Graphs**

- Q1 : Draw a graph of sin  $\chi$  against  $\chi$  . Take  $\chi$  from  $0^{\circ}$  to  $360^{\circ}$  and sin  $\chi$  from -1 to 1.
- Q2: Use the above graph to solve  $\sin(x) = 0.5$  in the range  $0 < x < 3 \le 6$ .
- Q3: Calculate the angles between  $0^{\circ}$  and  $360^{\circ}$  with a sine of 0.197.
- Q4: Calculate the angles between 0° and 360° with a sine of 0.6.
- Q5: Draw a graph of cos x against . Take x from 0° to 360° and cos x from -1 to 1.
- Q6: Use the above graph to solve  $\cos(5c) = 0.70$  in the range  $0.4 \times 0.4$
- Q7: State the two angles between 0° and 360° for each of the cosine values.
  - a) 0.458 b) 0.8
- Q8: a) Draw the graph of y = tan ( $\mathcal{L}$ ) in the range of  $0 \le x \le 360$ .
  - b) Use the graph above to explain what is happening at tan (90°) and tan (270°).