K Education Centre

GCSE Maths - Higher

Trigonometric Graphs

Assignment Questions

Q1 : Draw a graph of sin$x$ against x, Take x from 0^0 to 360^0 and sin x from -1 to 1.

Q2: Use the above graph to solve sin(x) = 0.5 in the range $0^\circ \le x \le 360^\circ$.

Q3: Calculate the angles between 0^0 and 360^0 with a sine of – 0.197.

Q4: Calculate the angles between 0^0 and 360^0 with a sine of 0.6.

Q5: Draw a graph of cos$x$ against$x$. Take$x$ from 0^0 to 360^0 and cos$x$ from -1 to 1.

Q6: Use the above graph to solve cos (x) = 0.70 in the range $0^\circ \le x \le 360^\circ$.

Q7: State the two angles between 0^0 and 360^0 for each of the cosine values.

   a) 0.458 b) – 0.8

Q8 : a) Draw the graph of y = tan (x) in the range of $0^\circ \le x \le 360^\circ$.

   b) Use the graph above to explain what is happening at tan (90^0) and tan (270^0) .