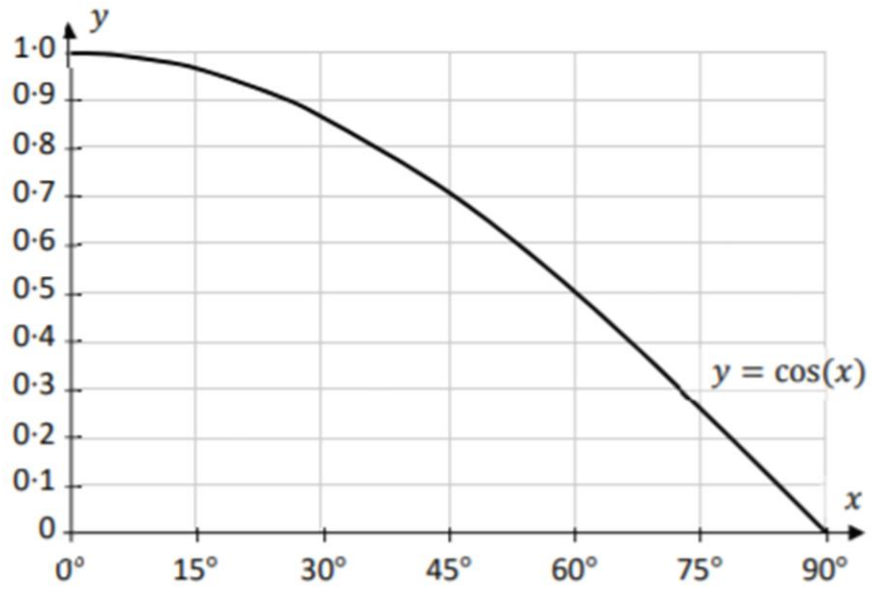
Trigonometric Functions - Sin & Cos Graphs

The co-ordinate diagram below shows the graph of the function $y = \cos(x)$, for $0° \leq x \leq 90°$.



a) Estimate the value of $Cos(60)$ using your graph.

b) Use a calculator to work out the value of $\cos(60)$, correct to one decimal place.

c) Complete the table below, correct to one decimal place.

x	0	15	30	45	60	75	90
$\sin(x)$							

d) Hence, draw the graph of $y = \sin(x)$ on the diagram above, using the same axis and scale.

e) Use your graph to find the value of x, for which $Sin(x) = 0.6$.

Extension:

Both functions have the same outputs for different values of x. What relationship is there between these x-values?