

**SHEET 2 Collection of results from the whole class.****Readings from points on the unit circle so that the graphs of $y=\cos A$ and $y=\sin A$ can be plotted.**

INPUT Angle A in degrees	OUTPUT 1 x coordinate $\cos A$ (short for cosine A)	OUTPUT 2 y coordinate $\sin A$ (short for sine A)	<p>To plot the graphs On SHEET 3 the horizontal axis is marked in degrees from 0° to 360°.</p> <p>This axis is labelled 'Angle A in degrees' and it is used for the independent variable or input.</p> <p>The other axis is marked from -1 to +1. This axis is used for the dependent variable or output.</p> <p>Plot the points (A; $\cos A$). Join the points with a smooth curve. Label this curve $f(A) = \cos A$.</p> <p>Plot the points (A; $\sin A$). Join the points with a smooth curve. Label this curve $g(A) = \sin A$.</p> <p>Notes for the teacher</p> <p>The reason for taking 10 cm as 1 unit is so that you can take the readings easily and fairly accurately.</p> <p>The graph paper reproduced here may have been re-sized in the printing. Either re-draw the 10 cm unit circle on your own graph paper or use the sheet provided and take readings from the graph paper rather than using a ruler.</p> <p>If you do this activity with your learners then don't ask them to do all 72 readings. It is much better to share the work of doing the readings around the class.</p> <p>KEY QUESTIONS</p> <p>These are very open and general questions that you might ask your learners to set them thinking.</p> <p>What do you notice?</p> <p>What do you think happens if you go on to 370°, 380°, and so on and on ?</p> <p>What happens for negative angles?</p>
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