Finding Exact Trig Values

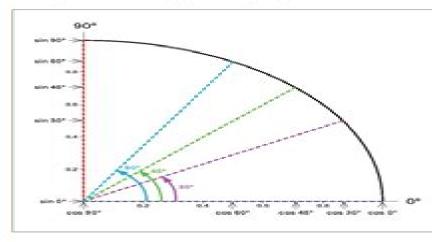


For the angles 0°, 30°, 45°, 60° and 90° you will need to know the exact values of the functions sin, cos, and tan.

Section A.

One way to get these values is to draw a circle radius 1 with its centre at the origin of an xy-axis.

Adding lines at the different angles from the x-axis, we can then read the values for sin and cos of the angles.



Looking at the diagram, state the values for:

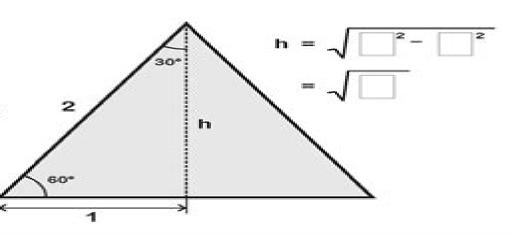
- a. sin 0*
- b. cos 0°
- c. sin 90°
- d. cos 90°
- e. sin 30°
- f. cos 60°

Section B

Some of the values are hard to read of an axis and the values of tan would involve finding the gradient.

Another way to find some of the exact trig values is to use an equilateral triangle split in half.

Use Pythagoras' theorem to complete the working for the height of the triangle.



Find Exact Trig Values Worksheet

Ian Pickup

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