

To enter the cosine of 57.2° first, we proceed as follows:

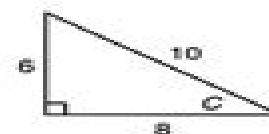
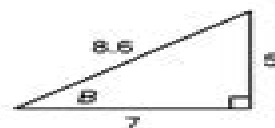
ENTER	DISPLAY
57.2	57.2
cos	0.54170821
×	0.54170821
4	4
=	2.166832841

For convenience, when we transcribe these answers, we will round them to two decimal places.

$$4 \cos 57.2^\circ = 2.17$$

example 43.1

Find (a) the sine of A , (b) the cosine of B , (c) the tangent of C . Round answers to two decimal places.



solution

We will use our mnemonic to help remember the definitions of sine, cosine, and tangent. We will use a calculator to do the divisions, and we will round answers to two decimal places.

$$(a) \sin = \frac{\text{Oscar}}{\text{had}}$$

$$\sin A = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{4}{7} = 0.57$$

$$(b) \cos = \frac{\text{a}}{\text{hold}}$$

$$\cos B = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{7}{8.6} = 0.81$$

$$(c) \tan = \frac{\text{on}}{\text{Arthur}}$$

$$\tan C = \frac{\text{opposite}}{\text{adjacent}} = \frac{6}{8} = 0.75$$

43.B inverse functions

The inverse sine of a number is the angle whose sine is the number. Several examples will help.

- (a) The sine of 30° is 0.5 so the inverse sine of 0.5 is 30° .
- (b) The cosine of 30° is approximately 0.866 so the inverse cosine of 0.866 is 30° .
- (c) The tangent of 30° is approximately 0.577 so the inverse tangent of 0.577 is 30° .

To find the inverse sine, cosine, and tangent of a number, we use the **inv** key followed by the trigonometric function key.

example 43.2

Find (a) the angle whose sine is 0.643, and (b) the angle whose cosine is 0.216.

solution

(a)	ENTER	DISPLAY
	0.643	0.643
	inv sin	$40.0158 = 40^\circ$
(b)	ENTER	DISPLAY
	0.216	0.216
	inv cos	$77.52579 = 77.53^\circ$

Saxon Math Algebra 2 Answer Key

Burger



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