

mobius

Trigonometry - Calculating Angles from Ratios

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1 Calculate the angle in degrees, given the trigonometric ratio

$$sin(\alpha) = 0.616$$

Calculate the angle in degrees, given the trigonometric ratio

$$\mathsf{tan}(lpha) = 1.28$$

$$lpha=23^\circ$$
 $lpha=33^\circ$ $lpha=28^\circ$ $lpha=48^\circ$ $lpha=18^\circ$ $lpha=38^\circ$ $lpha=42^\circ$ $lpha=57^\circ$ $lpha=57^\circ$ $lpha=52^\circ$ $lpha=72^\circ$ $lpha=67^\circ$

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3 Calculate the angle in degrees, given the trigonometric ratio

$$tan(\alpha) = 1.6$$

Calculate the angle in degrees, given the trigonometric ratio

$$\cos(\alpha) = 0.602$$

A B C D E F A B C D E F
$$\alpha=63^\circ$$
 $\alpha=78^\circ$ $\alpha=58^\circ$ $\alpha=43^\circ$ $\alpha=48^\circ$ $\alpha=38^\circ$ $\alpha=43^\circ$ $\alpha=48^\circ$ $\alpha=48^\circ$ $\alpha=53^\circ$ $\alpha=63^\circ$ $\alpha=63^\circ$ $\alpha=68^\circ$ $\alpha=73^\circ$

5 Calculate the angle in degrees, given the trigonometric ratio

$$tan(\alpha) = 3.078$$

6 Calculate the angle in degrees, given the trigonometric ratio

$$\cos(\alpha) = 0.707$$

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7 Calculate the angle in degrees, given the trigonometric ratio

$$\mathsf{tan}(lpha) = 1.235$$

Calculate the angle in degrees, given the trigonometric ratio

$$\cos(\alpha) = 0.358$$