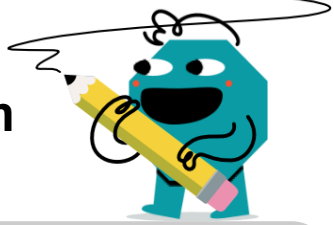
Name

Trigonometry - Calculating Angles from Ratios (Words to -1 Notation)



1 How would you calculate the angle using -1 notation?

α has a tan of 1.28

A	$\alpha = \tan(1.28) - 1$	B	$\alpha = \tan^{-1}(1.28)$
C	$\alpha = \frac{1}{\tan^{-1}(1.28)}$	D	$\alpha = \frac{1}{\operatorname{atan}(1.28)}$

2 How would you calculate the angle using -1 notation?

α has a tan of 5.145

A	$\alpha = \tan(5.145) - 1$	B	$\alpha = \tan^{-1}(5.145)$
C	$\alpha = \frac{1}{\tan^{-1}(5.145)}$	D	$\alpha = \frac{1}{\operatorname{atan}(5.145)}$

3 How would you calculate the angle using -1 notation?

α has a tan of 0.966

A	$\alpha = \tan(0.966) - 1$	B	$\alpha = \frac{1}{\operatorname{atan}(0.966)}$
C	$\alpha = \frac{1}{\tan^{-1}(0.966)}$	D	$\alpha = \tan^{-1}(0.966)$

4 How would you calculate the angle using -1 notation?

α has a sin of 0.988

A	$\alpha = \sin^{-1}(0.988)$	B	$\alpha = \sin(0.988) - 1$
C	$\alpha = \frac{1}{\sin^{-1}(0.988)}$	D	$\alpha = \frac{1}{\operatorname{asin}(0.988)}$

5 How would you calculate the angle using -1 notation?

α has a sin of 0.276

A	$\alpha = \sin^{-1}(0.276)$	B	$\alpha = \frac{1}{\sin^{-1}(0.276)}$
C	$\alpha = \sin(0.276) - 1$	D	$\alpha = \frac{1}{\operatorname{asin}(0.276)}$

6 How would you calculate the angle using -1 notation?

α has a tan of 6.314

A	$\alpha = \frac{1}{\tan^{-1}(6.314)}$	B	$\alpha = \tan(6.314) - 1$
C	$\alpha = \frac{1}{\operatorname{atan}(6.314)}$	D	$\alpha = \tan^{-1}(6.314)$

7 How would you calculate the angle using -1 notation?

α has a sin of 0.777

A	$\alpha = \frac{1}{\operatorname{asin}(0.777)}$	B	$\alpha = \frac{1}{\sin^{-1}(0.777)}$
C	$\alpha = \sin(0.777) - 1$	D	$\alpha = \sin^{-1}(0.777)$

8 How would you calculate the angle using -1 notation?

α has a tan of 0.231

A	$\alpha = \frac{1}{\tan^{-1}(0.231)}$	B	$\alpha = \tan^{-1}(0.231)$
C	$\alpha = \frac{1}{\operatorname{atan}(0.231)}$	D	$\alpha = \tan(0.231) - 1$