



Math worksheet on 'Trigonometry - Calculating Angles from Ratios (Words to -1 Notation) (Level 1)'.
Part of a broader unit on 'Trigonometry Fundamentals - Intro'

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

α has a sin of 0.799

a $\alpha = \frac{1}{\sin(0.799)}$	b $\alpha = \sin(0.799) - 1$
c $\alpha = \sin^{-1}(0.799)$	d $\alpha = \sin^{-1}(0.799)$

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

α has a sin of 0.899

a $\alpha = \frac{1}{\sin^{-1}(0.899)}$	b $\alpha = \frac{1}{\sin(0.899)}$
c $\alpha = \sin^{-1}(0.899)$	d $\alpha = \sin(0.899) - 1$

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

α has a tan of 3.078

a $\alpha = \frac{1}{\tan(3.078)}$	b $\alpha = \tan(3.078) - 1$
c $\alpha = \tan^{-1}(3.078)$	d $\alpha = \frac{1}{\tan^{-1}(3.078)}$

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

α has a cos of 0.515

a $\alpha = \cos(0.515) - 1$	b $\alpha = \frac{1}{\cos(0.515)}$
c $\alpha = \frac{1}{\cos^{-1}(0.515)}$	d $\alpha = \cos^{-1}(0.515)$

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

α has a sin of 0.996

a $\alpha = \sin^{-1}(0.996)$	b $\alpha = \frac{1}{\sin(0.996)}$
c $\alpha = \sin(0.996) - 1$	d $\alpha = \frac{1}{\sin^{-1}(0.996)}$

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

α has a cos of 0.545

a $\alpha = \cos^{-1}(0.545)$	b $\alpha = \frac{1}{\cos^{-1}(0.545)}$
c $\alpha = \cos(0.545) - 1$	d $\alpha = \frac{1}{\cos(0.545)}$

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

α has a tan of 1.28

a $\alpha = \frac{1}{\tan^{-1}(1.28)}$	b $\alpha = \tan(1.28) - 1$
c $\alpha = \tan^{-1}(1.28)$	d $\alpha = \frac{1}{\tan(1.28)}$