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

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

$$\tan(\alpha) = 1.664$$

A $\alpha = \dfrac{1}{\text{atan}(1.664)}$

B $\alpha = \dfrac{1}{\tan^{-1}(1.664)}$

C $\alpha = \tan(1.664) - 1$

D $\alpha = \tan^{-1}(1.664)$

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

$$\cos(\alpha) = 0.799$$

A $\alpha = \cos(0.799) - 1$

B $\alpha = \dfrac{1}{\cos^{-1}(0.799)}$

C $\alpha = \dfrac{1}{\text{acos}(0.799)}$

D $\alpha = \cos^{-1}(0.799)$

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

$$\tan(\alpha) = 0.532$$

A $\alpha = \dfrac{1}{\text{atan}(0.532)}$

B $\alpha = \dfrac{1}{\tan^{-1}(0.532)}$

C $\alpha = \tan(0.532) - 1$

D $\alpha = \tan^{-1}(0.532)$

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

$$\cos(\alpha) = 0.545$$

A $\alpha = \dfrac{1}{\cos^{-1}(0.545)}$

B $\alpha = \cos(0.545) - 1$

C $\alpha = \dfrac{1}{\text{acos}(0.545)}$

D $\alpha = \cos^{-1}(0.545)$

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

$$\cos(\alpha) = 0.743$$

A $\alpha = \dfrac{1}{\text{acos}(0.743)}$

B $\alpha = \cos^{-1}(0.743)$

C $\alpha = \dfrac{1}{\cos^{-1}(0.743)}$

D $\alpha = \cos(0.743) - 1$

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

$$\cos(\alpha) = 0.407$$

A $\alpha = \cos^{-1}(0.407)$

B $\alpha = \dfrac{1}{\text{acos}(0.407)}$

C $\alpha = \dfrac{1}{\cos^{-1}(0.407)}$

D $\alpha = \cos(0.407) - 1$

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

$$\cos(\alpha) = 0.669$$

A $\alpha = \cos^{-1}(0.669)$

B $\alpha = \cos(0.669) - 1$

C $\alpha = \dfrac{1}{\cos^{-1}(0.669)}$

D $\alpha = \dfrac{1}{\text{acos}(0.669)}$

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

$$\cos(\alpha) = 0.719$$

A $\alpha = \dfrac{1}{\text{acos}(0.719)}$

B $\alpha = \dfrac{1}{\cos^{-1}(0.719)}$

C $\alpha = \cos^{-1}(0.719)$

D $\alpha = \cos(0.719) - 1$