

mobius

Trigonemetry, Unit Circle Ratios (Tan, Sec, Csc, Cot) - Ratio To Ratio As Inverse



(Degrees)

cot(240°)

What inverse ratio would give this trigonometry ratio?

$$egin{aligned} \mathsf{A} \ \mathsf{cot}(240^\circ) &= rac{1}{\mathsf{tan}(240^\circ)} \ &\\ \mathsf{B} \ \mathsf{cot}(240^\circ) &= rac{1}{\mathsf{csc}(240^\circ)} \end{aligned}$$

2

csc(330°)

What inverse ratio would give this trigonometry ratio?

$$\frac{A}{\csc(330^\circ)} = \frac{1}{\cos(330^\circ)}$$

$$\frac{B}{\cos(330^\circ)}$$

3

 $sin(315^{\circ})$

What inverse ratio would give this trigonometry ratio?

$$egin{aligned} \operatorname{\mathsf{A}} & \operatorname{\mathsf{sin}}(315^\circ) = rac{1}{\operatorname{\mathsf{sec}}(315^\circ)} \ & \operatorname{\mathsf{B}} & \operatorname{\mathsf{sin}}(315^\circ) = rac{1}{\operatorname{\mathsf{csc}}(315^\circ)} \end{aligned}$$

cot(330°)

What inverse ratio would give this trigonometry ratio?

$$egin{aligned} {\sf A} \ {\sf cot}(330^\circ) &= rac{1}{{\sf tan}(330^\circ)} \ {\sf B} \ {\sf cot}(330^\circ) &= rac{1}{{\sf csc}(330^\circ)} \end{aligned}$$

5

 $csc(150^\circ)$

What inverse ratio would give this trigonometry ratio?

$$egin{aligned} \mathsf{csc}(150^\circ) &= rac{1}{\mathsf{cos}(150^\circ)} \ \mathsf{csc}(150^\circ) &= rac{1}{\mathsf{sin}(150^\circ)} \end{aligned}$$

 $csc(210^{\circ})$

What inverse ratio would give this trigonometry ratio?

$$egin{aligned} \mathsf{A} \ \mathsf{csc}(210^\circ) &= rac{1}{\mathsf{sin}(210^\circ)} \ & \ \mathsf{B} \ \mathsf{csc}(210^\circ) &= rac{1}{\mathsf{cos}(210^\circ)} \end{aligned}$$

7

tan(315°)

What inverse ratio would give this trigonometry ratio?

$$egin{aligned} \mathsf{A} \ \mathsf{tan}(315^\circ) &= rac{1}{\mathsf{sec}(315^\circ)} \ &= rac{1}{\mathsf{cot}(315^\circ)} \end{aligned}$$

8

 $\cos(135^{\circ})$

What inverse ratio would give this trigonometry ratio?

$$egin{aligned} \mathsf{A} \ \mathsf{cos}(135^\circ) &= rac{1}{\mathsf{sec}(135^\circ)} \ \mathsf{B} \ \mathsf{cos}(135^\circ) &= rac{1}{\mathsf{csc}(135^\circ)} \end{aligned}$$