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Periodicity or Cofunction Identities Formulas

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List of 24 Periodicity or Cofunction Identities Formulas

Periodicity or Cofunction Identities

1) Cos (2pi+A)

$$\text{fx } \cos(2\pi+A) = \cos(A)$$

[Open Calculator !\[\]\(a870788d6ed9b8fd294b7654a8c8526b_img.jpg\)](#)

$$\text{ex } 0.939693 = \cos(20^\circ)$$

2) Cos (2pi-A)

$$\text{fx } \cos(2\pi-A) = \cos(A)$$

[Open Calculator !\[\]\(c50c8b7b2cc2cf9ff925edec0ee94c0d_img.jpg\)](#)

$$\text{ex } 0.939693 = \cos(20^\circ)$$

3) Cos (3pi/2+A)

$$\text{fx } \cos(3\pi/2+A) = \sin(A)$$

[Open Calculator !\[\]\(f60b7a900783ac3fd531bfd9c111be6d_img.jpg\)](#)

$$\text{ex } 0.34202 = \sin(20^\circ)$$

4) Cos (3pi/2-A)

$$\text{fx } \cos(3\pi/2-A) = (-\sin(A))$$

[Open Calculator !\[\]\(83bbbd261710c59db0214aa27b2edc0d_img.jpg\)](#)

$$\text{ex } -0.34202 = (-\sin(20^\circ))$$



5) Cos ($\pi/2+A$)

$$\text{fx } \cos(\pi/2+A) = (-\sin(A))$$

[Open Calculator](#) 

$$\text{ex } -0.34202 = (-\sin(20^\circ))$$

6) Cos ($\pi/2-A$)

$$\text{fx } \cos(\pi/2-A) = \sin(A)$$

[Open Calculator](#) 

$$\text{ex } 0.34202 = \sin(20^\circ)$$

7) Cos ($\pi+A$)

$$\text{fx } \cos(\pi+A) = (-\cos(A))$$

[Open Calculator](#) 

$$\text{ex } -0.939693 = (-\cos(20^\circ))$$

8) Cos ($\pi-A$)

$$\text{fx } \cos(\pi-A) = (-\cos(A))$$

[Open Calculator](#) 

$$\text{ex } -0.939693 = (-\cos(20^\circ))$$

9) Sin ($2\pi+A$)

$$\text{fx } \sin(2\pi+A) = \sin(A)$$

[Open Calculator](#) 

$$\text{ex } 0.34202 = \sin(20^\circ)$$



10) Sin (2pi-A)

$$\text{fx } \sin(2\pi - A) = (-\sin(A))$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95_img.jpg\)](#)

$$\text{ex } -0.34202 = (-\sin(20^\circ))$$

11) Sin (3pi/2+A)

$$\text{fx } \sin(3\pi/2 + A) = (-\cos(A))$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2_img.jpg\)](#)

$$\text{ex } -0.939693 = (-\cos(20^\circ))$$

12) Sin (3pi/2-A)

$$\text{fx } \sin(3\pi/2 - A) = (-\cos(A))$$

[Open Calculator !\[\]\(fe3aebe81acea8d45108cd2768939da7_img.jpg\)](#)

$$\text{ex } -0.939693 = (-\cos(20^\circ))$$

13) Sin (pi/2+A)

$$\text{fx } \sin(\pi/2 + A) = \cos(A)$$

[Open Calculator !\[\]\(899d8b7697d64725bf017d3296cfcf1b_img.jpg\)](#)

$$\text{ex } 0.939693 = \cos(20^\circ)$$

14) Sin (pi/2-A)

$$\text{fx } \sin(\pi/2 - A) = \cos(A)$$

[Open Calculator !\[\]\(40770d9ed6ed4f1222ebf89a1396e8b2_img.jpg\)](#)

$$\text{ex } 0.939693 = \cos(20^\circ)$$



15) Sin ($\pi+A$)

$$\text{fx } \sin(\pi+A) = (-\sin(A))$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a_img.jpg\)](#)

$$\text{ex } -0.34202 = (-\sin(20^\circ))$$

16) Sin ($\pi-A$)

$$\text{fx } \sin(\pi-A) = \sin(A)$$

[Open Calculator !\[\]\(0b5e7e25e8775f7e7e80906ada4f0021_img.jpg\)](#)

$$\text{ex } 0.34202 = \sin(20^\circ)$$

17) Tan ($2\pi+A$)

$$\text{fx } \tan(2\pi+A) = \tan(A)$$

[Open Calculator !\[\]\(bd3b31712ad9bab5a241210fa6925cdd_img.jpg\)](#)

$$\text{ex } 0.36397 = \tan(20^\circ)$$

18) Tan ($2\pi-A$)

$$\text{fx } \tan(2\pi-A) = (-\tan(A))$$

[Open Calculator !\[\]\(7bc43b319a082987e20f7bf78f4bab80_img.jpg\)](#)

$$\text{ex } -0.36397 = (-\tan(20^\circ))$$

19) Tan ($3\pi/2+A$)

$$\text{fx } \tan(3\pi/2+A) = (-\cot(A))$$

[Open Calculator !\[\]\(4a7b4ce770af8456e11a71f9565c8c2b_img.jpg\)](#)

$$\text{ex } -2.747477 = (-\cot(20^\circ))$$



20) Tan (3pi/2-A)

$$\text{fx } \tan(3\pi/2-A) = \cot(A)$$

[Open Calculator !\[\]\(d3fb9f94af8b26d1c844efa9a98805b0_img.jpg\)](#)

$$\text{ex } 2.747477 = \cot(20^\circ)$$

21) Tan (pi/2+A)

$$\text{fx } \tan(\pi/2+A) = (-\cot(A))$$

[Open Calculator !\[\]\(e1d6102fe77919492c04879c8450f1f5_img.jpg\)](#)

$$\text{ex } -2.747477 = (-\cot(20^\circ))$$

22) Tan (pi/2-A)

$$\text{fx } \tan(\pi/2-A) = \cot(A)$$

[Open Calculator !\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#)

$$\text{ex } 2.747477 = \cot(20^\circ)$$

23) Tan (pi+A)

$$\text{fx } \tan(\pi+A) = \tan(A)$$

[Open Calculator !\[\]\(5abce1a84a655b073239ab33e1199487_img.jpg\)](#)

$$\text{ex } 0.36397 = \tan(20^\circ)$$

24) Tan (pi-A)

$$\text{fx } \tan(\pi-A) = (-\tan(A))$$

[Open Calculator !\[\]\(111c5272ee3f91361f0d2e3665dd6ad0_img.jpg\)](#)

$$\text{ex } -0.36397 = (-\tan(20^\circ))$$



Variables Used

- **A** Angle A of Trigonometry (Degree)
- $\cos(2\pi+A)$ Cos (2pi+A)
- $\cos(2\pi-A)$ Cos (2pi-A)
- $\cos(3\pi/2+A)$ Cos (3pi/2+A)
- $\cos(3\pi/2-A)$ Cos (3pi/2-A)
- $\cos(\pi/2+A)$ Cos (pi/2+A)
- $\cos(\pi/2-A)$ Cos (pi/2-A)
- $\cos(\pi+A)$ Cos (pi+A)
- $\cos(\pi-A)$ Cos (pi-A)
- $\sin(2\pi+A)$ Sin (2pi+A)
- $\sin(2\pi-A)$ Sin (2pi-A)
- $\sin(3\pi/2+A)$ Sin (3pi/2+A)
- $\sin(3\pi/2-A)$ Sin (3pi/2-A)
- $\sin(\pi/2+A)$ Sin (pi/2+A)
- $\sin(\pi/2-A)$ Sin (pi/2-A)
- $\sin(\pi+A)$ Sin (pi+A)
- $\sin(\pi-A)$ Sin (pi-A)
- $\tan(2\pi+A)$ Tan (2pi+A)
- $\tan(2\pi-A)$ Tan (2pi-A)
- $\tan(3\pi/2+A)$ Tan (3pi/2+A)



- $\tan(3\pi/2-A)$ $\tan(3\pi/2-A)$
- $\tan(\pi/2+A)$ $\tan(\pi/2+A)$
- $\tan(\pi/2-A)$ $\tan(\pi/2-A)$
- $\tan(\pi+A)$ $\tan(\pi+A)$
- $\tan(\pi-A)$ $\tan(\pi-A)$



Constants, Functions, Measurements used

- **Function:** **cos**, $\cos(\text{Angle})$
Trigonometric cosine function
- **Function:** **cot**, $\cot(\text{Angle})$
Trigonometric cotangent function
- **Function:** **sin**, $\sin(\text{Angle})$
Trigonometric sine function
- **Function:** **tan**, $\tan(\text{Angle})$
Trigonometric tangent function
- **Measurement:** **Angle** in Degree ($^{\circ}$)
Angle Unit Conversion 



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- [Negative, Half, Double and Triple Angle Trigonometry Identities Formulas](#) 
- [Periodicity or Cofunction Identities Formulas](#) 
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