

# Trigonometrie

## Question 1/34

$$\cos(\pi - x)$$

Réponse 1/34

$$-\cos(x)$$

## Question 2/34

$$\sin(2x)$$

## Réponse 2/34

$$2 \sin(x) \cos(x)$$

## Question 3/34

$$\cot(x - y)$$

## Réponse 3/34

$$\frac{-\cot(x)\cot(y)-1}{\cot(x)-\cot(y)} = \frac{\cot(x)\cot(y)+1}{\cot(y)-\cot(x)}$$

## Question 4/34

$$\cos(x)$$

$$t = \tan\left(\frac{x}{2}\right)$$



## Réponse 4/34

$$\frac{1 - t^2}{1 + t^2}$$

$$t = \tan\left(\frac{x}{2}\right)$$

## Question 5/34

$$\cos^2(x) - \sin^2(x) = 2 \cos^2(x) - 1 = 1 - 2 \sin^2(x)$$

Réponse 5/34

$$\cos(2x)$$

## Question 6/34

$$\cot(2x)$$

## Réponse 6/34

$$\frac{\cot^2(x) - 1}{2 \cot(x)}$$

## Question 7/34

$$\cos(x) \cos(y) - \sin(x) \sin(y)$$

## Réponse 7/34

$$\cos(x + y)$$

## Question 8/34

$$\frac{\tan(x) + \tan(y)}{1 - \tan(x) \tan(y)}$$



Réponse 8/34

$$\tan(x + y)$$

## Question 9/34

$$2 \cos\left(\frac{x+y}{2}\right) \cos\left(\frac{x-y}{2}\right)$$

## Réponse 9/34

$$\cos(x) + \cos(y)$$

## Question 10/34

$$\sin(x)$$

## Réponse 10/34

$$\cos\left(\frac{\pi}{2} - x\right)$$

## Question 11/34

$$\sin(x) - \sin(y)$$

## Réponse 11/34

$$2 \cos\left(\frac{x+y}{2}\right) \sin\left(\frac{x-y}{2}\right)$$

## Question 12/34

$$\cot(x + y)$$



## Réponse 12/34

$$\frac{\cot(x) \cot(y) - 1}{\cot(x) + \cot(y)}$$

## Question 13/34

$$\sin(x) \cos(y) + \sin(y) \cos(x)$$

Réponse 13/34

$$\sin(x + y)$$

## Question 14/34

$$\frac{2 \tan(x)}{1 - \tan^2(x)}$$

## Réponse 14/34

$$\tan(2x)$$

## Question 15/34

$$\cos(x)$$

## Réponse 15/34

$$\sin\left(x + \frac{\pi}{2}\right)$$

## Question 16/34

$$\cos(x)$$



## Réponse 16/34

$$\sin\left(\frac{\pi}{2} - x\right)$$

## Question 17/34

$$\cos(x) \cos(y) + \sin(x) \sin(y)$$

Réponse 17/34

$$\cos(x - y)$$

## Question 18/34

$$-\cos(x)$$

Réponse 18/34

$$\cos(x + \pi)$$

## Question 19/34

$$\frac{1 - t^2}{2t}$$

$$t = \tan\left(\frac{x}{2}\right)$$

## Réponse 19/34

$$\cot(x)$$

$$t = \tan\left(\frac{x}{2}\right)$$

## Question 20/34

$$\sin(x)$$



## Réponse 20/34

$$\sin(\pi - x)$$

## Question 21/34

$$-2 \sin\left(\frac{x+y}{2}\right) \sin\left(\frac{x-y}{2}\right)$$

## Réponse 21/34

$$\cos(x) - \cos(y)$$

## Question 22/34

$$\sin(x + \pi)$$

Réponse 22/34

$$-\sin(x)$$

## Question 23/34

$$\frac{1 - \cos(2x)}{2}$$

Réponse 23/34

$$\sin^2(x)$$

## Question 24/34

$$\frac{1 + \cos(2x)}{2}$$



## Réponse 24/34

$$\cos^2(x)$$

## Question 25/34

$$\tan(x - y)$$

## Réponse 25/34

$$\frac{\tan(x) - \tan(y)}{1 + \tan(x) \tan(y)}$$

## Question 26/34

$$\frac{2t}{1+t^2}$$

$$t = \tan\left(\frac{x}{2}\right)$$

## Réponse 26/34

$$\sin(x)$$

$$t = \tan\left(\frac{x}{2}\right)$$

## Question 27/34

$$\frac{2t}{1-t^2}$$

$$t = \tan\left(\frac{x}{2}\right)$$

## Réponse 27/34

$$\tan(x)$$

$$t = \tan\left(\frac{x}{2}\right)$$

## Question 28/34

$$\sin(x) \cos(y) - \sin(y) \cos(x)$$



Réponse 28/34

$$\sin(x - y)$$

## Question 29/34

$$2 \sin\left(\frac{x+y}{2}\right) \cos\left(\frac{x-y}{2}\right)$$

## Réponse 29/34

$$\sin(x) + \sin(y)$$

## Question 30/34

$$\sin(x) \sin(y)$$

Réponse 30/34

$$\frac{1}{2}(\cos(x - y) - \cos(x + y))$$

## Question 31/34

$$\cos(x) \cos(y)$$

## Réponse 31/34

$$\frac{1}{2}(\cos(x+y) + \cos(x-y))$$

## Question 32/34

$$\cos\left(x + \frac{\pi}{2}\right)$$



Réponse 32/34

$$-\sin(x)$$

## Question 33/34

$$\cos(x) \sin(y)$$

## Réponse 33/34

$$\frac{1}{2}(\sin(x+y) - \sin(x-y))$$

## Question 34/34

$$\sin(x) \cos(y)$$

## Réponse 34/34

$$\frac{1}{2}(\sin(x+y) + \sin(x-y))$$