Trigonometrie

Question 1/34

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

Réponse 1/34

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

Question 2/34

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

Réponse 2/34

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

Question 3/34

$$\tan(2x)$$

Réponse 3/34

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

Question 4/34

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

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

Réponse 4/34

$$\sin(x)$$

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

Question 5/34

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

Réponse 5/34

$$-\sin(x)$$

Question 6/34

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

Réponse 6/34

$$\cos(x)$$

Question 7/34

$$\cot(x - y)$$

Réponse 7/34

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

Question 8/34

$$-\sin(x)$$

Réponse 8/34

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

Question 9/34

$$\tan(x)$$

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

Réponse 9/34

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

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

Question 10/34

$$\sin(x)$$

Réponse 10/34

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

Question 11/34

$$-\cos(x)$$

Réponse 11/34

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

Question 12/34

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

Réponse 12/34

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

Question 13/34

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

Réponse 13/34

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

Question 14/34

$$\sin(x)$$

Réponse 14/34

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

Question 15/34

$$\sin(2x)$$

Réponse 15/34

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

Question 16/34

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

Réponse 16/34

$$\tan(x+y)$$

Question 17/34

$$\cos(x - y)$$

Réponse 17/34

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

Question 18/34

$$-\cos(x)$$

Réponse 18/34

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

Question 19/34

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

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

Réponse 19/34

$$\cos(x)$$

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

Question 20/34

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

Réponse 20/34

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

Question 21/34

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

Réponse 21/34

$$\sin(x+y)$$

Question 22/34

$$\tan(x - y)$$

Réponse 22/34

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

Question 23/34

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

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

Réponse 23/34

$$\cot(x)$$

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

Question 24/34

$$\cos(2x)$$

Réponse 24/34

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

Question 25/34

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

Réponse 25/34

$$\cos^2(x)$$

Question 26/34

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

Réponse 26/34

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

Question 27/34

$$\cos(x)$$

Réponse 27/34

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

Question 28/34

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

Réponse 28/34

$$\cot(2x)$$

Question 29/34

$$\cot(x+y)$$

Réponse 29/34

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

Question 30/34

$$\sin^2(x)$$

Réponse 30/34

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

Question 31/34

$$\cos(x + y)$$

Réponse 31/34

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

Question 32/34

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

Réponse 32/34

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

Question 33/34

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

Réponse 33/34

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

Question 34/34

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

Réponse 34/34

$$\sin(x - y)$$