## Answer on Question #48678 - Math - Trigonometry

Write the expression as either the sine, cosine, or tangent of a single angle. cosine of pi divided by three times cosine of pi divided by five plus sine of pi divided by three times sine of pi divided by five.

## Solution.

$$\cos\frac{\pi}{3}\cdot\cos\frac{\pi}{5}+\sin\frac{\pi}{3}\cdot\sin\frac{\pi}{5}=\cos\left(\frac{\pi}{3}-\frac{\pi}{5}\right)=\cos\frac{5\pi-3\pi}{15}=\cos\frac{2\pi}{15}.$$

Answer: 
$$\cos \frac{2\pi}{15}$$
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