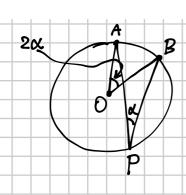


Un angolo alla circonferenza ha ampiezza α e cos $\alpha = \frac{8}{17}$. Trova seno e coseno del corrispondente angolo

 $\sin \beta = \frac{240}{289}; \cos \beta = -\frac{161}{289}$



$$co>2x=2co>d-1=2.\frac{8}{17}$$
 $-1=$

$$=2.64 - 1 = 128-289 = -161$$

$$=289 = 289$$

$$\cos A = \frac{8}{17} > 0$$

Sin $d = + \sqrt{1 - \cos d} = \sqrt{1 - \frac{64}{283}} = \sqrt{\frac{283 - 64}{283}} = \frac{\sqrt{225}}{283} = \frac{15}{17}$
 $= + \text{ feithe } d = 0$

Compress for 0 e II

(energy one of the circumference)

$$\sin 2d = 2 \sin d \cos d = 2 \cdot \frac{15}{17} \cdot \frac{8}{17} = 240$$

196
$$y = \frac{1}{2} \sin x \cos x - \frac{1}{2} \cos^2 x$$

$$y = \frac{1}{4} \sin 2x - \frac{1}{4} \cos 2x - \frac{1}{4}$$

$$y = \frac{1}{4} (\sin 2x - \cos 2x) - \frac{1}{4}$$

$$y = \frac{1}{4} (\sin 2x - \cos 2x) - \frac{1}{4}$$

$$x > 0$$

$$\sin 2x - \cos 2x = R \sin (2x + \omega) = R \cos d \sin 2x + R \sin d \cos 2x$$

$$\begin{cases} R \sin a = -1 & R \cos d \sin 2x + R \sin d \cos 2x \\ R \cos a = 1 & R^2 \sin^2 d + R^2 \cos^2 a = 2 \end{cases}$$

$$\cos a = -1 \Rightarrow \alpha = -\frac{\pi}{4}$$

$$\sin 2x - \cos 2x = \sqrt{2} \cdot \sin (2x - \frac{\pi}{4})$$

$$y = \frac{1}{4} (\sqrt{2} \sin (2x - \frac{\pi}{4})) - \frac{1}{4}$$

$$y = \sqrt{2} \sin (2x - \frac{\pi}{4}) - \frac{1}{4}$$

$$y = \sin x$$

$$y = \sin x$$

$$y = \sin x$$

$$y = \sin x$$

$$y = \sin (x - \frac{\pi}{4})$$

$$y = \sin (2x - \frac{\pi}{4})$$

$$y$$