

Answer on Question #57291-Physics-Other

Enter the expression $2\cos^2(\theta)-1$, where θ is the lowercase Greek letter theta

Solution

$$2 \cos^2(\theta) - 1 = 2 \cos^2(\theta) - (\cos^2(\theta) + \sin^2 \theta) = \cos^2(\theta) - \sin^2 \theta = \cos 2\theta.$$

Answer: $\cos 2\theta$.