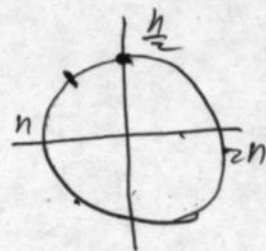


$$049: -\underbrace{\cancel{\cot \alpha} \cdot \cancel{\tan \alpha}}_1 + \underbrace{\cos^2 \alpha + \sin^2 \alpha}_1 = -1 + 1 = 0$$

$$050: \cos^2 \alpha = \frac{1 + \cos 2\alpha}{2} = \frac{1 - \frac{7}{8}}{2} = \frac{1}{8-2} = \frac{1}{16}$$

$$\cos \alpha = -\sqrt{\frac{1}{16}} = -\frac{1}{4} = -0.25$$



$$\cot \alpha = \frac{\cos \alpha}{\sin \alpha} = -$$

$$2\cos^2 \alpha = 1 + \cos 2\alpha$$

$$n < 2\alpha < \frac{3n}{2}$$

$$\frac{n}{2} < \alpha < \frac{3n}{4}$$

$$\cos \alpha < 0$$