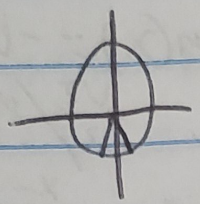
Dec. 3

Math 418

Quiz 10

1. $\sin\theta = \frac{-\sqrt{3}}{2}$

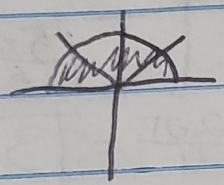


$\theta = 4\pi/3, 5\pi/3$

$\theta = \frac{4\pi}{3} + 2\pi k$

$\theta = \frac{5\pi}{3} + 2\pi k$

2. $\tan^2\alpha = 1$



$\alpha = \frac{\pi}{4}, \frac{3\pi}{4}$

$\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)^2$

$\left(\frac{-\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)^2$

3. $\sin\beta\cos\beta = 0 \rightarrow \sin\beta = 0, \cos\beta = 0$

$0 = 1 \cdot 0, \; 0 \cdot 1, \; -1 \cdot 0, \; 0 \cdot -1$ + +

$\beta = \frac{\pi}{2} + 2\pi k$

$\beta = \pi + 2\pi k$

$\beta = \frac{3\pi}{2} + 2\pi k$

$\beta = 2\pi + 2\pi k$