47 $\cos t \sin t = \sin t \Rightarrow \cos t \sin t - \sin t = 0 \Rightarrow \sin t(\cos t - 1) = 0 \Rightarrow \sin t = 0$ or $\cos t = 1$

Since $t_R = \sin^{-1} 0 = \cos^{-1} 1 = 0$ and the angle is quadrantal, $t = 0, \pm\pi, \pm 2\pi, \ldots$

$t = \pi n$ or $t = 180°n$ for $n = 0, \pm 1, \pm 2, \pm 3, \ldots$