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

$\theta = \frac{7\pi}{6}$ (F), $\frac{11\pi}{6}$ (S), $\frac{7\pi}{6}+2\pi$ (F+2π), $\frac{11\pi}{6}+2\pi$ (S+2π), $\frac{7\pi}{6}+4\pi$ (F+4π), $\frac{11\pi}{6}+4\pi$ (S+4π)

$\frac{19\pi}{6}$ $\frac{23\pi}{6}$ $\frac{31\pi}{6}$ $\frac{35\pi}{6}$

$\theta = \frac{7\pi}{6} + 2\pi n$, n is INT.

$\theta = \frac{11\pi}{6} + 2\pi n$, n is INT.

8. $\tan\frac{\theta}{3} = 1$

① $\tan\frac{\pi}{4} = 1$ ② $\tan\frac{5\pi}{4} = 1$ ③ $\tan\frac{9\pi}{4} = 1$ ④ $\tan\frac{13\pi}{4} = 1$

$\frac{\pi}{4}+2\pi$ $\frac{5\pi}{4}+2\pi$

$\frac{\theta}{3} = \frac{\pi}{4}$ $\frac{\theta}{3} = \frac{5\pi}{4}$ $\frac{\theta}{3} = \frac{9\pi}{4}$ $\frac{\theta}{3} = \frac{13\pi}{4}$

$3\cdot\left(\frac{\theta}{3}\right) = 3\left(\frac{\pi}{4}\right)$

$\theta = \frac{3\pi}{4}$ $\theta = \frac{15\pi}{4}$ $\theta = \frac{27\pi}{4}$ $\theta = \frac{39\pi}{4}$

$+\frac{12\pi}{4}$ $+\frac{12\pi}{4}$ $+\frac{12\pi}{4}$

3π $+3\pi$

$\theta = \frac{3\pi}{4} + 3\pi n$, n is INT.

9. $\cos\theta = 0.27$

$\cos\theta - 0.27 = 0$

$\theta = 1.3$

$\theta = 4.99$

10. $\csc\theta = -3$

$\frac{1}{\sin\theta} = -3$

$\frac{1}{\sin\theta} + 3 = 0$

$\theta = 3.48$

$\theta = 5.94$

INTERSECT METHOD

1. GET EVERYTHING ON LEFT SIDE, ZERO ON RIGHT SIDE
2. PUT LEFT SIDE ON Y1
   ZERO ON Y2
3. [2ND] [TRACE], CHOOSE INTERSECT

[ENTER] ON 1ST CURVE

[ENTER] ON 2ND CURVE

USE ARROW KEYS TO MOVE CURSOR CLOSE TO ANSWER AND PRESS [ENTER]