sicolo

answers

Last updated: 03-11

(1) $\sin\theta = 1$ $\left(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2}\right)$

$\theta = \frac{\pi}{2}$

(2) $\cos\theta = \frac{\sqrt{3}}{2}$ $(-\pi \leqq \theta \leqq 0)$

$\theta = -\frac{\pi}{6}$

(3) $\log_{\frac{1}{25}} \frac{1}{5}$

$= \frac{1}{2}$

(4) $\log_{\frac{\sqrt{5}}{5}} 625$

$= -8$

(5) $\log_{\frac{1}{\sqrt{3}}} 9$

$= -4$

(6) $\cos\theta = -\frac{1}{2}$ $(0 \leqq \theta \leqq \pi)$

$\theta = \frac{2\pi}{3}$

(7) $\cos\frac{5\pi}{4}$

$= -\frac{\sqrt{2}}{2}$

(8) $\log_{125\sqrt{5}} \frac{625}{\sqrt{5}}$

$= 1$

(9) $\log_{\frac{\sqrt{5}}{125}} 25$

$= -\frac{4}{5}$

(10) $\log_{\frac{1}{25\sqrt{5}}} \frac{1}{5}$

$= \frac{2}{5}$

(11) $\sin\theta = -\frac{1}{2}$ $\left(\frac{3\pi}{2} \leqq \theta \leqq \frac{5\pi}{2}\right)$

$\theta = \frac{11\pi}{6}$

(12) $\log_{3\sqrt{3}} 81$

$= \frac{8}{3}$

(13) $\cos\theta = \frac{\sqrt{3}}{2}$ $(-\pi \leqq \theta \leqq 0)$

$\theta = -\frac{\pi}{6}$

(14) $\sin\theta = 0$ $\left(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2}\right)$

$\theta = 0$

(15) $\tan\theta = \sqrt{3}$ $\left(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2}\right)$

$\theta = \frac{\pi}{3}$

(16) $\log_{\frac{1}{5\sqrt{5}}} 1$

$= 0$

(17) $\sin\frac{11\pi}{6}$

$= -\frac{1}{2}$

(18) $\log_{\frac{\sqrt{2}}{8}} 1$

$= 0$

(19) $\cos\frac{5\pi}{6}$

$= -\frac{\sqrt{3}}{2}$

(20) $\cos\theta = -\frac{\sqrt{2}}{2}$ $(0 \leqq \theta \leqq \pi)$

$\theta = \frac{3\pi}{4}$

(21) $\cos 0$

$= 1$

(22) $\log_8 \frac{1}{\sqrt{2}}$

$= -\frac{1}{6}$

(23) $\sin\theta = \frac{\sqrt{2}}{2}$ $\left(\frac{3\pi}{2} \leqq \theta \leqq \frac{5\pi}{2}\right)$

$\theta = \frac{9\pi}{4}$

(24) $\log_{\frac{1}{\sqrt{2}}} 16$

$= -8$

(25) $\sin\frac{11\pi}{6}$

$= -\frac{1}{2}$

(26) $\log_{\frac{1}{27}} \frac{27}{\sqrt{3}}$

$= -\frac{5}{6}$

(27) $\tan\theta = -\sqrt{3}$ $\left(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2}\right)$

$\theta = -\frac{\pi}{3}$

(28) $\cos\theta = -\frac{\sqrt{3}}{2}$ $(-\pi \leqq \theta \leqq 0)$

$\theta = -\frac{5\pi}{6}$

(29) $\sin\frac{\pi}{3}$

$= \frac{\sqrt{3}}{2}$

(30) $\tan\theta = -\frac{\sqrt{3}}{3}$ $\left(\frac{\pi}{2} \leqq \theta \leqq \frac{3\pi}{2}\right)$

$\theta = \frac{5\pi}{6}$

(31) $\sin\theta = -1$ $\left(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2}\right)$

$\theta = -\frac{\pi}{2}$

(32) $\log_4 \frac{1}{4}$

$= -1$

(33) $\cos\theta = \frac{\sqrt{2}}{2}$ $(-\pi \leqq \theta \leqq 0)$

$\theta = -\frac{\pi}{4}$

(34) $\cos\frac{5\pi}{4}$

$= -\frac{\sqrt{2}}{2}$

(35) $\cos\frac{\pi}{6}$

$= \frac{\sqrt{3}}{2}$

(36) $\cos\theta = \frac{1}{2}$ $(\pi \leqq \theta \leqq 2\pi)$

$\theta = \frac{5\pi}{3}$

(37) $\sin\frac{7\pi}{4}$

$= -\frac{\sqrt{2}}{2}$

(38) $\tan\theta = -\sqrt{3}$ $\left(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2}\right)$

$\theta = -\frac{\pi}{3}$

(39) $\cos\theta = 1$ $(0 \leqq \theta \leqq \pi)$

$\theta = 0$

(40) $\log_{\frac{1}{4\sqrt{2}}} 2$

$= -\frac{2}{5}$

This print is programmed by SANO Satoshi.
My favorite English saying is that
Virtue is its own reward.