sicolo

answers

Last updated: 04-01

(1) $\sin\frac{11\pi}{6}$
$= -\frac{1}{2}$

(2) $\cos\theta = \frac{\sqrt{2}}{2}$ $(-\pi \leqq \theta \leqq 0)$
$\theta = -\frac{\pi}{4}$

(3) $\log_{\frac{1}{27}}\frac{\sqrt{3}}{9}$
$= \frac{1}{2}$

(4) $\sin\frac{\pi}{3}$
$= \frac{\sqrt{3}}{2}$

(5) $\cos\frac{5\pi}{6}$
$= -\frac{\sqrt{3}}{2}$

(6) $\sin\theta = \frac{\sqrt{2}}{2}$ $(\frac{3\pi}{2} \leqq \theta \leqq \frac{5\pi}{2})$
$\theta = \frac{9\pi}{4}$

(7) $\sin\frac{\pi}{4}$
$= \frac{\sqrt{2}}{2}$

(8) $\cos 0$
$= 1$

(9) $\log_{\frac{1}{27}} 1$
$= 0$

(10) $\tan\theta = 1$ $(\frac{\pi}{2} \leqq \theta \leqq \frac{3\pi}{2})$
$\theta = \frac{5\pi}{4}$

(11) $\cos\theta = 1$ $(\pi \leqq \theta \leqq 2\pi)$
$\theta = 2\pi$

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

(13) $\log_{4\sqrt{2}}\frac{1}{4}$
$= -\frac{4}{5}$

(14) $\cos\frac{3\pi}{2}$
$= 0$

(15) $\sin\theta = \frac{1}{2}$ $(\frac{\pi}{2} \leqq \theta \leqq \frac{3\pi}{2})$
$\theta = \frac{5\pi}{6}$

(16) $\log_{\frac{1}{125}} 125$
$= -1$

(17) $\sin\theta = \frac{\sqrt{2}}{2}$ $(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2})$
$\theta = \frac{\pi}{4}$

(18) $\cos\frac{5\pi}{6}$
$= -\frac{\sqrt{3}}{2}$

(19) $\cos\frac{7\pi}{6}$
$= -\frac{\sqrt{3}}{2}$

(20) $\tan\theta = \frac{\sqrt{3}}{3}$ $(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2})$
$\theta = \frac{\pi}{6}$

(21) $\cos\theta = -\frac{1}{2}$ $(-\pi \leqq \theta \leqq 0)$
$\theta = -\frac{2\pi}{3}$

(22) $\sin\pi$
$= 0$

(23) $\cos\theta = \frac{1}{2}$ $(-\pi \leqq \theta \leqq 0)$
$\theta = -\frac{\pi}{3}$

(24) $\sin\frac{\pi}{6}$
$= \frac{1}{2}$

(25) $\cos\theta = -\frac{\sqrt{3}}{2}$ $(-\pi \leqq \theta \leqq 0)$
$\theta = -\frac{5\pi}{6}$

(26) $\cos\theta = \frac{\sqrt{3}}{2}$ $(0 \leqq \theta \leqq \pi)$
$\theta = \frac{\pi}{6}$

(27) $\sin 0$
$= 0$

(28) $\cos\frac{\pi}{6}$
$= \frac{\sqrt{3}}{2}$

(29) $\cos\theta = -1$ $(-\pi \leqq \theta \leqq 0)$
$\theta = -\pi$

(30) $\sin\frac{5\pi}{4}$
$= -\frac{\sqrt{2}}{2}$

(31) $\log_{\frac{\sqrt{3}}{9}}\frac{1}{3}$
$= \frac{2}{3}$

(32) $\sin 0$
$= 0$

(33) $\log_{\frac{25}{\sqrt{5}}} 5$
$= \frac{2}{3}$

(34) $\cos\pi$
$= -1$

(35) $\cos\theta = -\frac{\sqrt{3}}{2}$ $(-\pi \leqq \theta \leqq 0)$
$\theta = -\frac{5\pi}{6}$

(36) $\log_{\frac{1}{16}} 4\sqrt{2}$
$= -\frac{5}{8}$

(37) $\log_{\frac{5}{\sqrt{5}}}\frac{\sqrt{5}}{125}$
$= -5$

(38) $\sin\frac{\pi}{2}$
$= 1$

(39) $\log_{\frac{1}{4\sqrt{2}}} 2\sqrt{2}$
$= -\frac{3}{5}$

(40) $\log_{27\sqrt{3}} 27\sqrt{3}$
$= 1$

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