sicolo

answers

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

$= \frac{3}{2}$

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

$\theta = 0$

(3) $\sin(-\pi)$

$= 0$

(4) $\sin 0$

$= 0$

(5) $\cos(-\pi)$

$= -1$

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

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

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

$\theta = -\pi$

(8) $\cos\frac{2\pi}{3}$

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

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

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

(10) $\log_{\frac{\sqrt{2}}{2}} \frac{1}{\sqrt{2}}$

$= 1$

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

$\theta = \pi$

(12) $\tan\frac{\pi}{6}$

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

(13) $\sin\frac{3\pi}{4}$

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

(14) $\tan(-\frac{\pi}{4})$

$= -1$

(15) $\log_{\sqrt{5}} \frac{25}{\sqrt{5}}$

$= 3$

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

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

(17) $\sin(-\pi)$

$= 0$

(18) $\cos(-\frac{\pi}{6})$

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

(19) $\cos\frac{\pi}{2}$

$= 0$

(20) $\tan\theta = 1$
$(\frac{\pi}{2} \leqq \theta \leqq \frac{3\pi}{2})$

$\theta = \frac{5\pi}{4}$

(21) $\sin\frac{7\pi}{6}$

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

(22) $\sin\frac{5\pi}{4}$

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

(23) $\cos\frac{3\pi}{4}$

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

(24) $\log_{27} \frac{3}{\sqrt{3}}$

$= \frac{1}{6}$

(25) $\log_{\frac{1}{3}} \frac{1}{9}$

$= 2$

(26) $\tan\theta = 1$
$(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2})$

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

(27) $\sin\theta = \frac{\sqrt{2}}{2}$
$(\frac{\pi}{2} \leqq \theta \leqq \frac{3\pi}{2})$

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

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

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

(29) $\tan\theta = 1$
$(-\frac{\pi}{2} \leqq \theta \leqq \frac{\pi}{2})$

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

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

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

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

$= -4$

(32) $\log_{\frac{2}{\sqrt{2}}} \frac{1}{2}$

$= -2$

(33) $\sin\frac{4\pi}{3}$

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

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

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

(35) $\log_3 \frac{1}{27\sqrt{3}}$

$= -\frac{7}{2}$

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

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

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

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

(38) $\tan(-\frac{2\pi}{3})$

$= \sqrt{3}$

(39) $\log_{\frac{1}{8}} \frac{1}{2}$

$= \frac{1}{3}$

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

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

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