

# sicolo

## # answers #

Last updated: 03-25

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|--|---|---|--|
| (1) $\sin(-\pi)$<br>$= 0$  | (2) $\log_{\sqrt{5}} 625$<br>$= 8$  | (3) $\tan \theta = -\sqrt{3}$<br>$(\frac{\pi}{2} \leq \theta \leq \frac{3\pi}{2})$<br>$\theta = \frac{2\pi}{3}$           | (4) $\log_{\frac{1}{81}} \frac{1}{3\sqrt{3}}$<br>$= \frac{3}{8}$                                     |
| (5) $\sin \theta = 1$<br>$(\frac{\pi}{2} \leq \theta \leq \frac{3\pi}{2})$<br>$\theta = \frac{\pi}{2}$ | (6) $\cos \frac{11\pi}{6}$<br>$= \frac{\sqrt{3}}{2}$  | (7) $\sin \theta = \frac{\sqrt{2}}{2}$<br>$(\frac{3\pi}{2} \leq \theta \leq \frac{5\pi}{2})$<br>$\theta = \frac{9\pi}{4}$ | (8) $\cos \theta = \frac{\sqrt{2}}{2}$<br>$(\pi \leq \theta \leq 2\pi)$<br>$\theta = \frac{7\pi}{4}$ |
| (9) $\log_{\frac{\sqrt{3}}{81}} \frac{1}{9\sqrt{3}}$<br>$= \frac{5}{7}$                                | (10) $\cos \theta = 0$<br>$(-\pi \leq \theta \leq 0)$<br>$\theta = -\frac{\pi}{2}$                                | (11) $\cos 0$<br>$= 1$  | (12) $\log_3 \frac{1}{9}$<br>$= -2$  |
| (13) $\tan \frac{3\pi}{4}$<br>$= -1$   | (14) $\sin(-\frac{5\pi}{6})$<br>$= -\frac{1}{2}$  | (15) $\log_{\frac{\sqrt{2}}{8}} 8$<br>$= -\frac{6}{5}$  | (16) $\cos(-\frac{\pi}{2})$<br>$= 0$   |
| (17) $\cos(-\frac{3\pi}{4})$<br>$= -\frac{\sqrt{2}}{2}$  | (18) $\cos \frac{3\pi}{2}$<br>$= 0$   | (19) $\tan(-\frac{2\pi}{3})$<br>$= \sqrt{3}$  | (20) $\log_{\frac{5}{\sqrt{5}}} 5$<br>$= 2$  |
| (21) $\log_{27} \frac{81}{\sqrt{3}}$<br>$= \frac{7}{6}$  | (22) $\cos \frac{7\pi}{6}$<br>$= -\frac{\sqrt{3}}{2}$   | (23) $\log_5 625$<br>$= 4$  | (24) $\log_{16} 2$<br>$= \frac{1}{4}$  |
| (25) $\sin(-\frac{\pi}{6})$<br>$= -\frac{1}{2}$  | (26) $\sin 0$<br>$= 0$  | (27) $\tan \frac{2\pi}{3}$<br>$= -\sqrt{3}$   | (28) $\cos \theta = \frac{1}{2}$<br>$(-\pi \leq \theta \leq 0)$<br>$\theta = -\frac{\pi}{3}$         |
| (29) $\cos \frac{\pi}{6}$<br>$= \frac{\sqrt{3}}{2}$  | (30) $\sin \theta = \frac{1}{2}$<br>$(-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2})$<br>$\theta = \frac{\pi}{6}$ | (31) $\cos \theta = 0$<br>$(-\pi \leq \theta \leq 0)$<br>$\theta = -\frac{\pi}{2}$  | (32) $\log_{\frac{2}{\sqrt{2}}} \frac{1}{\sqrt{2}}$<br>$= -1$  |
| (33) $\cos \frac{\pi}{6}$<br>$= \frac{\sqrt{3}}{2}$  | (34) $\log_{\frac{1}{625}} \frac{1}{5}$<br>$= \frac{1}{4}$  | (35) $\tan \frac{5\pi}{3}$<br>$= -\sqrt{3}$   | (36) $\cos \frac{\pi}{4}$<br>$= \frac{\sqrt{2}}{2}$  |
| (37) $\sin \theta = 0$<br>$(-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2})$<br>$\theta = 0$            | (38) $\cos \frac{5\pi}{6}$<br>$= -\frac{\sqrt{3}}{2}$   | (39) $\sin(-\frac{5\pi}{6})$<br>$= -\frac{1}{2}$  | (40) $\cos \theta = -1$<br>$(\pi \leq \theta \leq 2\pi)$<br>$\theta = \pi$                           |

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