

# sicolo

## # answers #

Last updated: 05-01

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|---|--|---|--|
| (1) $\cos \theta = \frac{1}{2}$<br>( $0 \leq \theta \leq \pi$ )<br>$\theta = \frac{\pi}{3}$                                 | (2) $\sin(-\frac{5\pi}{6})$<br>$= -\frac{1}{2}$  | (3) $\cos \theta = -\frac{\sqrt{2}}{2}$<br>( $0 \leq \theta \leq \pi$ )<br>$\theta = \frac{3\pi}{4}$                        | (4) $\tan(-\frac{\pi}{4})$<br>$= -1$   |
| (5) $\sin \theta = -\frac{\sqrt{3}}{2}$<br>( $\frac{\pi}{2} \leq \theta \leq \frac{3\pi}{2}$ )<br>$\theta = \frac{4\pi}{3}$ | (6) $\cos \theta = \frac{1}{2}$<br>( $\pi \leq \theta \leq 2\pi$ )<br>$\theta = \frac{5\pi}{3}$                              | (7) $\sin \theta = -\frac{\sqrt{3}}{2}$<br>( $-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$ )<br>$\theta = -\frac{\pi}{3}$ | (8) $\cos \theta = -\frac{\sqrt{2}}{2}$<br>( $\pi \leq \theta \leq 2\pi$ )<br>$\theta = \frac{5\pi}{4}$                    |
| (9) $\tan \theta = -1$<br>( $\frac{\pi}{2} \leq \theta \leq \frac{3\pi}{2}$ )<br>$\theta = \frac{3\pi}{4}$                  | (10) $\log_{\sqrt{5}} 125$<br>$= -\frac{6}{5}$   | (11) $\cos \theta = -\frac{1}{2}$<br>( $-\pi \leq \theta \leq 0$ )<br>$\theta = -\frac{2\pi}{3}$                            | (12) $\cos 0$<br>$= 1$   |
| (13) $\tan \theta = \frac{\sqrt{3}}{3}$<br>( $\frac{\pi}{2} \leq \theta \leq \frac{3\pi}{2}$ )<br>$\theta = \frac{7\pi}{6}$ | (14) $\cos \theta = 0$<br>( $0 \leq \theta \leq \pi$ )<br>$\theta = \frac{\pi}{2}$   | (15) $\tan \theta = -1$<br>( $\frac{\pi}{2} \leq \theta \leq \frac{3\pi}{2}$ )<br>$\theta = \frac{3\pi}{4}$                 | (16) $\log_{\frac{1}{3}} 9$<br>$= -2$  |
| (17) $\sin(-\frac{3\pi}{4})$<br>$= -\frac{\sqrt{2}}{2}$   | (18) $\cos(-\frac{\pi}{2})$<br>$= 0$   | (19) $\log_{25} \frac{\sqrt{5}}{125}$<br>$= -\frac{5}{4}$   | (20) $\log_8 \frac{1}{8}$<br>$= -1$  |
| (21) $\sin \frac{3\pi}{2}$<br>$= -1$  | (22) $\log_{\frac{8}{\sqrt{2}}} \frac{1}{16}$<br>$= -\frac{8}{5}$  | (23) $\sin(-\frac{\pi}{6})$<br>$= -\frac{1}{2}$   | (24) $\cos \theta = -\frac{1}{2}$<br>( $-\pi \leq \theta \leq 0$ )<br>$\theta = -\frac{2\pi}{3}$                           |
| (25) $\cos \frac{3\pi}{4}$<br>$= -\frac{\sqrt{2}}{2}$   | (26) $\tan \theta = -\frac{\sqrt{3}}{3}$<br>( $\frac{\pi}{2} \leq \theta \leq \frac{3\pi}{2}$ )<br>$\theta = \frac{5\pi}{6}$ | (27) $\log_{\frac{1}{4\sqrt{2}}} \frac{1}{2}$<br>$= \frac{2}{5}$  | (28) $\log_{\frac{1}{16}} \frac{1}{4}$<br>$= \frac{1}{2}$  |
| (29) $\log_{\frac{\sqrt{5}}{125}} \frac{1}{5\sqrt{5}}$<br>$= \frac{3}{5}$   | (30) $\log_{\frac{1}{81}} 3\sqrt{3}$<br>$= -\frac{3}{8}$   | (31) $\cos \frac{4\pi}{3}$<br>$= -\frac{1}{2}$  | (32) $\log_{25} \frac{\sqrt{5}}{5}$<br>$= -\frac{1}{4}$  |
| (33) $\log_{27\sqrt{3}} \frac{1}{3\sqrt{3}}$<br>$= -\frac{3}{7}$  | (34) $\log_{\frac{1}{125}} \sqrt{5}$<br>$= -\frac{1}{6}$   | (35) $\cos(-\frac{\pi}{6})$<br>$= \frac{\sqrt{3}}{2}$   | (36) $\tan \frac{\pi}{4}$<br>$= 1$   |
| (37) $\log_3 \frac{9}{\sqrt{3}}$<br>$= \frac{3}{2}$   | (38) $\sin \frac{5\pi}{6}$<br>$= \frac{1}{2}$  | (39) $\cos \theta = -1$<br>( $0 \leq \theta \leq \pi$ )<br>$\theta = \pi$   | (40) $\tan \theta = \frac{\sqrt{3}}{3}$<br>( $-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$ )<br>$\theta = \frac{\pi}{6}$ |

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