

### Trigonometry 4.3

Give the measure of  $\theta$  within the indicated range of angle measures in the proper form.

$\sin \theta = 1/2$	$\cos \theta = \sqrt{2}/2$	$\sin \theta = \sqrt{3}/2$	$\cos \theta = 1/2$
1) Give $\theta$ in degrees for $0^\circ \leq \theta \leq 90^\circ$ .	2) Give $\theta$ in degrees for $0^\circ \leq \theta \leq 90^\circ$ .	3) Give $\theta$ in radians for $0 \text{ rad} \leq \theta \leq \pi/2 \text{ rad}$ .	4) Give $\theta$ in degrees for $0^\circ \leq \theta \leq 90^\circ$ .
5) Give $\theta$ in radians for $0 \text{ rad} \leq \theta \leq \pi/2 \text{ rad}$ .	6) Give $\theta$ in radians for $0 \text{ rad} \leq \theta \leq \pi/2 \text{ rad}$ .	7) Give $\theta$ in degrees for $0^\circ \leq \theta \leq 90^\circ$ .	8) Give $\theta$ in radians for $0 \text{ rad} \leq \theta \leq \pi/2 \text{ rad}$ .
9) Give $\theta$ in degrees for $90^\circ \leq \theta \leq 180^\circ$ .	10) Give $\theta$ in degrees for $270^\circ \leq \theta \leq 360^\circ$ .	11) Give $\theta$ in degrees for $90^\circ \leq \theta \leq 180^\circ$ .	12) Give $\theta$ in radians for $3\pi/2 \text{ rad} \leq \theta \leq 2\pi \text{ rad}$ .
13) Give $\theta$ in radians for $\pi/2 \text{ rad} \leq \theta \leq \pi \text{ rad}$ .	14) Give $\theta$ in radians for $3\pi/2 \text{ rad} \leq \theta \leq 2\pi \text{ rad}$ .	15) Give $\theta$ in radians for $\pi/2 \text{ rad} \leq \theta \leq \pi \text{ rad}$ .	16) Give $\theta$ in degrees for $270^\circ \leq \theta \leq 360^\circ$ .

$\cos \theta = -\sqrt{3}/2$	$\sin \theta = -\sqrt{3}/2$	$\cos \theta = -\sqrt{2}/2$	$\cos \theta = -1/2$
17) Give $\theta$ in degrees for $90^\circ \leq \theta \leq 180^\circ$ .	18) Give $\theta$ in degrees for $180^\circ \leq \theta \leq 270^\circ$ .	19) Give $\theta$ in radians for $\pi/2 \text{ rad} \leq \theta \leq \pi \text{ rad}$ .	20) Give $\theta$ in degrees for $90^\circ \leq \theta \leq 180^\circ$ .
21) Give $\theta$ in radians for $\pi/2 \text{ rad} \leq \theta \leq \pi \text{ rad}$ .	22) Give $\theta$ in radians for $\pi \text{ rad} \leq \theta \leq 3\pi/2 \text{ rad}$ .	23) Give $\theta$ in degrees for $90^\circ \leq \theta \leq 180^\circ$ .	24) Give $\theta$ in radians for $\pi/2 \text{ rad} \leq \theta \leq \pi \text{ rad}$ .
25) Give $\theta$ in degrees for $180^\circ \leq \theta \leq 270^\circ$ .	26) Give $\theta$ in degrees for $3\pi/2 \text{ rad} \leq \theta \leq 2\pi \text{ rad}$ .	27) Give $\theta$ in degrees for $180^\circ \leq \theta \leq 270^\circ$ .	28) Give $\theta$ in radians for $3\pi/2 \text{ rad} \leq \theta \leq 2\pi \text{ rad}$ .
29) Give $\theta$ in radians for $\pi \text{ rad} \leq \theta \leq 3\pi/2 \text{ rad}$ .	30) Give $\theta$ in radians for $270^\circ \leq \theta \leq 360^\circ$ .	31) Give $\theta$ in radians for $\pi \text{ rad} \leq \theta \leq 3\pi/2 \text{ rad}$ .	32) Give $\theta$ in degrees for $270^\circ \leq \theta \leq 360^\circ$ .

$\tan \theta = \sqrt{3}$	$\tan \theta = 1$	$\tan \theta = -1$	$\tan \theta = -\sqrt{3}/3$
33) Give $\theta$ in degrees for $0^\circ \leq \theta \leq 90^\circ$ .	34) Give $\theta$ in degrees for $0^\circ \leq \theta \leq 90^\circ$ .	35) Give $\theta$ in degrees for $90^\circ \leq \theta \leq 180^\circ$ .	36) Give $\theta$ in radians for $\pi/2 \text{ rad} \leq \theta \leq \pi \text{ rad}$ .
37) Give $\theta$ in radians for $0 \text{ rad} \leq \theta \leq \pi/2 \text{ rad}$ .	38) Give $\theta$ in radians for $0 \text{ rad} \leq \theta \leq \pi/2 \text{ rad}$ .	39) Give $\theta$ in radians for $\pi/2 \text{ rad} \leq \theta \leq \pi \text{ rad}$ .	40) Give $\theta$ in degrees for $90^\circ \leq \theta \leq 180^\circ$ .
41) Give $\theta$ in degrees for $180^\circ \leq \theta \leq 270^\circ$ .	42) Give $\theta$ in radians for $\pi \text{ rad} \leq \theta \leq 3\pi/2 \text{ rad}$ .	43) Give $\theta$ in radians for $3\pi/2 \text{ rad} \leq \theta \leq 2\pi \text{ rad}$ .	44) Give $\theta$ in degrees for $270^\circ \leq \theta \leq 360^\circ$ .
45) Give $\theta$ in radians for $\pi \text{ rad} \leq \theta \leq 3\pi/2 \text{ rad}$ .	46) Give $\theta$ in degrees for $180^\circ \leq \theta \leq 270^\circ$ .	47) Give $\theta$ in degrees for $270^\circ \leq \theta \leq 360^\circ$ .	48) Give $\theta$ in radians for $3\pi/2 \text{ rad} \leq \theta \leq 2\pi \text{ rad}$ .

