

Trigonometry 3.3

Algebra 2

Fill in the following t-table for the landmarks on the unit circle. Remember that $x = \theta$, and y is the trig. ratio for that angle measure.

$y = \sin x$

| x | y | x | y |
|-----------|---|------------|---|
| 0 | | -0 | |
| $\pi/6$ | | $-\pi/6$ | |
| $\pi/4$ | | $-\pi/4$ | |
| $\pi/3$ | | $-\pi/3$ | |
| $\pi/2$ | | $-\pi/2$ | |
| $2\pi/3$ | | $-2\pi/3$ | |
| $3\pi/4$ | | $-3\pi/4$ | |
| $5\pi/6$ | | $-5\pi/6$ | |
| π | | $-\pi$ | |
| $7\pi/6$ | | $-7\pi/6$ | |
| $5\pi/4$ | | $-5\pi/4$ | |
| $4\pi/3$ | | $-4\pi/3$ | |
| $3\pi/2$ | | $-3\pi/2$ | |
| $5\pi/3$ | | $-5\pi/3$ | |
| $7\pi/4$ | | $-7\pi/4$ | |
| $11\pi/6$ | | $-11\pi/6$ | |
| 2π | | -2π | |

$y = \cos x$

| x | y | x | y |
|-----------|---|------------|---|
| 0 | | -0 | |
| $\pi/6$ | | $-\pi/6$ | |
| $\pi/4$ | | $-\pi/4$ | |
| $\pi/3$ | | $-\pi/3$ | |
| $\pi/2$ | | $-\pi/2$ | |
| $2\pi/3$ | | $-2\pi/3$ | |
| $3\pi/4$ | | $-3\pi/4$ | |
| $5\pi/6$ | | $-5\pi/6$ | |
| π | | $-\pi$ | |
| $7\pi/6$ | | $-7\pi/6$ | |
| $5\pi/4$ | | $-5\pi/4$ | |
| $4\pi/3$ | | $-4\pi/3$ | |
| $3\pi/2$ | | $-3\pi/2$ | |
| $5\pi/3$ | | $-5\pi/3$ | |
| $7\pi/4$ | | $-7\pi/4$ | |
| $11\pi/6$ | | $-11\pi/6$ | |
| 2π | | -2π | |

$$y = \tan x$$

| x | y |
|-----------|---|
| 0 | |
| $\pi/6$ | |
| $\pi/4$ | |
| $\pi/3$ | |
| $\pi/2$ | |
| $2\pi/3$ | |
| $3\pi/4$ | |
| $5\pi/6$ | |
| π | |
| $7\pi/6$ | |
| $5\pi/4$ | |
| $4\pi/3$ | |
| $3\pi/2$ | |
| $5\pi/3$ | |
| $7\pi/4$ | |
| $11\pi/6$ | |
| 2π | |

| x | y |
|------------|---|
| -0 | |
| $-\pi/6$ | |
| $-\pi/4$ | |
| $-\pi/3$ | |
| $-\pi/2$ | |
| $-2\pi/3$ | |
| $-3\pi/4$ | |
| $-5\pi/6$ | |
| $-\pi$ | |
| $-7\pi/6$ | |
| $-5\pi/4$ | |
| $-4\pi/3$ | |
| $-3\pi/2$ | |
| $-5\pi/3$ | |
| $-7\pi/4$ | |
| $-11\pi/6$ | |
| -2π | |