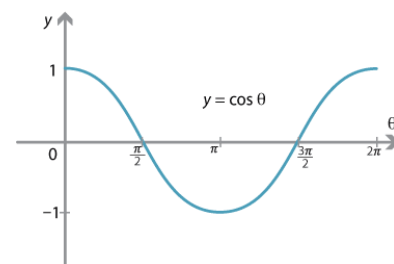
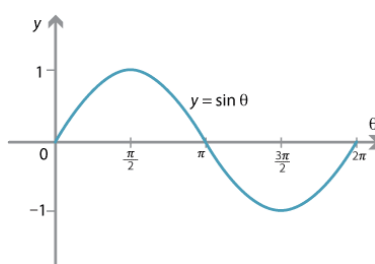
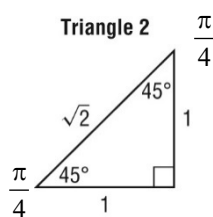
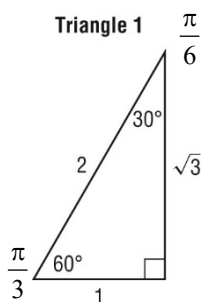


Recall the two special right triangles, and the graphs for sine and cosine.



Ex. 1. Use the special triangles or graphs above to determine the exact value of each trig ratio.

a) $\sin \frac{\pi}{4}$

b) $\cos(-240^\circ)$

c) $\sec \frac{7\pi}{6}$

d) $\sin \pi$

Assignment

Determine the exact value of each trigonometric ratio.

a) $\cos 30^\circ$

b) $\sin 30^\circ$

c) $\tan 60^\circ$

d) $\cos \frac{5\pi}{6}$

e) $\tan 300^\circ$

f) $\sin \frac{3\pi}{2}$

g) $\tan 150^\circ$

h) $\sin \frac{11\pi}{6}$

i) $\cos \frac{4\pi}{3}$

j) $\sin 180^\circ$

k) $\cos \frac{5\pi}{3}$

l) $\tan \frac{7\pi}{4}$

Answers:

a) $\frac{\sqrt{3}}{2}$

b) $\frac{1}{2}$

c) $\sqrt{3}$

d) $-\frac{\sqrt{3}}{2}$

e) $-\sqrt{3}$

f) -1

g) $-\frac{1}{\sqrt{3}}$

h) $-\frac{1}{2}$

i) $-\frac{1}{2}$

j) 0

k) $\frac{1}{2}$

l) -1