

Trig Practice

1) $\sin(45^\circ) =$

2) $\cos\left(\frac{7\pi}{6}\right) =$

3) Convert 192° into radians :

4) Convert $\frac{7}{9}\pi$ into degrees:

5) In which quadrant is sine positive, and tangent negative?

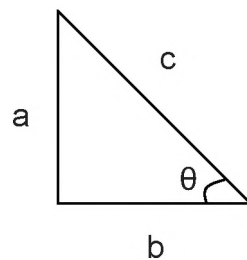
6) Is there a quadrant where sine, cosine, and tangent are all negative?

7) If $c = 5$, and $\theta = 30^\circ$, $a = ?$

8) If $a = 7$, and $b^2 = 576$, $c = ?$

9) $y = 10 + 3\cos(\pi t + \pi/3)$

- What is the amplitude?
- What is the maximum value of y ?
- What is the period?



10) Simplify:

a. $\sin \theta \csc \theta$

b. $\cos^{-1} \cos \theta$

c. $\sin^2 \theta + \cos^2 \theta + \sec^2 \theta - \tan^2 \theta$

d. $\frac{2\sin \theta \cos \theta}{\cos^2 \theta - \sin^2 \theta}$