

Complete as many of the following problems as you can with your table. You do not have to go in order. If **your entire table** finishes early, and your answers have been checked, you may leave early.

1. Convert the following angle measures (from degrees to radians or from radians to degrees).

(a) 45°

(c) $-\frac{5\pi}{2}$

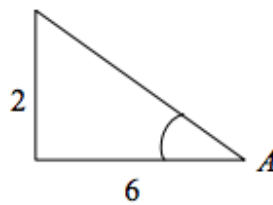
(b) 105°

(d) $\frac{\pi}{6}$

2. Find the length of the arc intercepted by a 30° angle on a circle of radius 50 inches.

3. Find the number of degrees in an angle which intercepts a 30 inch arc on a circle of radius 50 inches.

4. Find the six standard trigonometric functions for angle A .



Key:

1. (a) $\frac{\pi}{4}$
(b) $\frac{7\pi}{12}$
(c) -450°

- (d) 30°
2. $\frac{25\pi}{3}$ inches
3. $\frac{108}{\pi}$ degrees

4. $\sin A = \frac{1}{\sqrt{10}}$, $\cos A = \frac{3}{\sqrt{10}}$
 $\tan A = \frac{1}{3}$, $\csc A = \sqrt{10}$
 $\sec A = \frac{\sqrt{10}}{3}$, $\cot A = 3$