

Pre-Calculus: 4.1 – 4.2 Review  
Angles and Trigonometric Functions

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hour: \_\_\_\_

**Directions:** Convert from DMS to decimal form.

1.  $47^\circ 35'$
2.  $59^\circ 13' 4''$

**Directions:** Convert from degrees to DMS.

3.  $22.5^\circ$
4.  $79.36^\circ$

**Directions:** Convert from degrees to radians.

5.  $152^\circ$
6.  $275^\circ$
7.  $84^\circ 12'$

**Directions:** Convert from radians to degrees.

8.  $\frac{4\pi}{9}$
9. 1.4
10.  $\frac{36\pi}{7}$

**Directions:** Use the arc length formula to fill in the missing information of the table.

$s$	$r$	$\theta$
3 cm.		57 rad
	4 in.	$21^\circ$
10 in.	2 in.	
7 ft.		$\frac{\pi}{6}$ rad

**Directions:** Fill in the table with the six trigonometric functions and their equations.

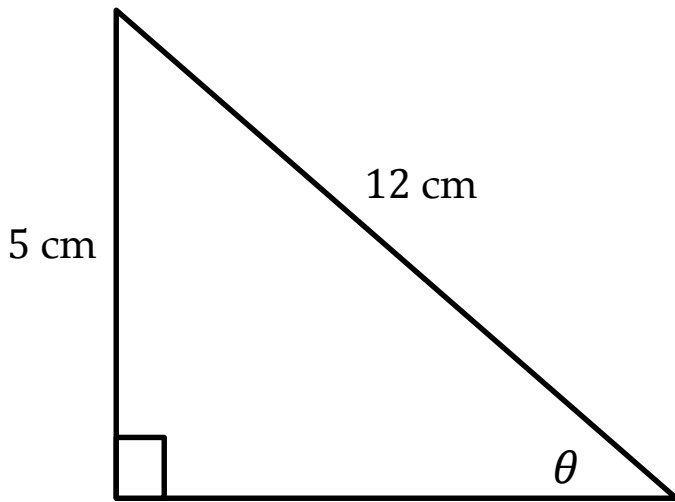

A. How are these values related?

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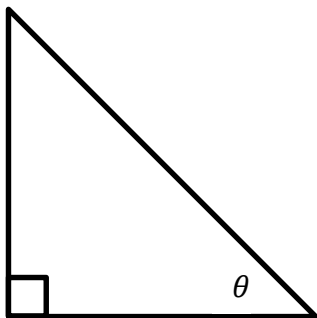
**Directions:** Evaluate all six trigonometric functions of the angle  $\theta$ .




1. Given  $\sin \theta = \frac{8}{17}$ , find  $\cos \theta$  and  $\tan \theta$ .

A.  $\cos \theta =$  \_\_\_\_\_

B.  $\tan \theta =$  \_\_\_\_\_



2. Given  $\csc \theta = \frac{11}{5}$ , find  $\sec \theta$  and  $\cot \theta$ .

A.  $\sec \theta =$  \_\_\_\_\_

B.  $\cot \theta =$  \_\_\_\_\_

