

Name _____

Date _____

Using and Understanding the Unit Circle - Matching Worksheet

Write the letter of the answer that matches the problem.

1. Let $\sin \theta = -\frac{5}{7}$

Find the value of a given trigonometric ratio using unit circles:

$\cos \theta =$, $\tan \theta =$

2. Let $\sin \theta = \frac{13}{39}$

Find the value of a given trigonometric ratio using unit circles:

$\sec \theta =$, $\csc \theta =$

3. Let $\cos \theta = -\frac{14}{28}$

Find the value of a given trigonometric ratio using unit circles:

$\sin \theta =$, $\tan \theta =$

4. Let $\cos \theta = -\frac{7}{17}$

Find the value of a given trigonometric ratio using unit circles:

$\sec \theta =$, $\csc \theta =$

5. Let $\sin \theta = -\frac{16}{21}$

Find the value of a given trigonometric ratio using unit circles:

$\sec \theta =$, $\csc \theta =$

6. Let $\cos \theta = -\frac{21}{31}$

Find the value of a given trigonometric ratio using unit circles:

$\tan \theta =$, $\sec \theta =$

a. $\sin \theta = -\frac{\sqrt{3}}{2}$,
 $\tan \theta = \sqrt{3}$

b. $\sec \theta = \frac{21}{185}$,
 $\csc \theta = -\frac{21}{16}$

c. $\cos \theta = -0.65$
 $\tan \theta = -\frac{5}{24}$

d. $\sec \theta = \frac{3}{104}$,
 $\csc \theta = 3$

e. $\tan \theta = \frac{2\sqrt{130}}{21}$,
 $\sec \theta = -\frac{31}{21}$

f. $\sec \theta = -\frac{17}{7}$,
 $\csc \theta = -\frac{17}{4\sqrt{15}}$

