

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.  $\cos \theta = \frac{24}{7}$ ,  
 $\tan \theta = -\frac{5}{24}$

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

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

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

