

Pythagorean Identities and Solving Equations  
Practice A

Name:

Given one ratio, find the other 2 ratios.

1.  $\tan \theta = \frac{-4}{3}$  and  $\sin \theta$  is positive.

2.  $\cos \theta = \frac{-5}{13}$  and  $\tan \theta$  is positive.

3.  $\tan \theta = \frac{5}{8}$  and  $\sin \theta$  is positive.

4.  $\sin \theta = \frac{-12}{13}$  and  $\tan \theta$  is positive.

5. Given  $\sin \theta = \frac{-4}{5}$ , what are all possible values for  $\cos \theta$  and  $\tan \theta$ ?

Solve for all possible values of  $\theta$ ,  $0 \leq \theta \leq 360$ .

6)  $\sin \theta = -\frac{1}{2}$

7)  $\sin \theta = \frac{1}{2}$

8)  $\cos \theta = \frac{\sqrt{3}}{2}$

9)  $\cos \theta = -\frac{\sqrt{3}}{2}$

10)  $\tan \theta = \sqrt{3}$

11)  $\tan \theta = -1$