Lesson 3.8 Practice: Exact Values Around the Unit Circle

School Launch · Trigonometry · Unit 3: Angles, Radians and the Unit Circle · Worksheet A

Scientific calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Find the exact value of $\sin\left(\frac{7\pi}{4}\right)$. EASY

2. Find the exact value of $\sin\left(\frac{\pi}{6}\right)$. EASY

3. Find the exact value of $\cos\left(\frac{4\pi}{3}\right)$. EASY

4. Find the exact value of $\tan\left(\frac{2\pi}{3}\right)$. MEDIUM

5. Find the exact value of $\tan\left(\frac{5\pi}{4}\right)$. MEDIUM

6. Find the exact value of $\sec\left(\frac{7\pi}{4}\right)$. MEDIUM

7. Find the exact value of $\tan\left(\frac{7\pi}{4}\right)$. MEDIUM

8. Find the exact value of $\csc\left(\frac{7\pi}{4}\right)$. HARD

9. Find the exact value of $\cot\left(\frac{5\pi}{6}\right)$. HARD

10. Find the exact value of $\cot\left(-\frac{3\pi}{4}\right)$. HARD