Lesson 3.7 Practice: Reference Angles and Signs by Quadrant

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 reference angle of $219°$ and the sign of $\sin 219°$. EASY

2. Find the reference angle of $340°$ and the sign of $\sin 340°$. EASY

3. Find the reference angle of $356°$ and the sign of $\tan 356°$. EASY

4. Find the reference angle of $317°$ and the sign of $\cos 317°$. MEDIUM

5. Find the reference angle of $141°$ and the sign of $\tan 141°$. MEDIUM

6. Find the reference angle of $148°$ and the sign of $\sin 148°$. MEDIUM

7. Find the reference angle of $359°$ and the sign of $\sin 359°$. MEDIUM

8. Find the reference angle of $100°$ and the sign of $\cos 100°$. HARD

9. Find the reference angle of $130°$ and the sign of $\cos 130°$. HARD

10. Find the reference angle of $162°$ and the sign of $\cos 162°$. HARD