Lesson 2.3 Practice: Complementary Angles and Cofunctions

School Launch · Trigonometry · Unit 2: Special Right Triangles and Exact Values · 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. Write $\sec 16^\circ$ as a cofunction of the complementary angle. EASY

2. Write $\sec 20^\circ$ as a cofunction of the complementary angle. EASY

3. Write $\cos 67^\circ$ as a cofunction of the complementary angle. EASY

4. Write $\tan 59^\circ$ as a cofunction of the complementary angle. MEDIUM

5. Write $\tan 61^\circ$ as a cofunction of the complementary angle. MEDIUM

6. Write $\tan 7^\circ$ as a cofunction of the complementary angle. MEDIUM

7. Write $\cos 69^\circ$ as a cofunction of the complementary angle. MEDIUM

8. Find x if $\sin(2x + 17)^\circ = \cos(9x + 10)^\circ$, with both angles acute. HARD

9. Find x if $\sin(2x + 18)^\circ = \cos(6x + 10)^\circ$, with both angles acute. HARD

10. Find x if $\sin(2x + 8)^\circ = \cos(9x + 10)^\circ$, with both angles acute. HARD