Lesson 13.1 Practice: Right-Triangle Trigonometry: A Review

School Launch · Algebra II · Unit 13: A Bridge to Trigonometry · Worksheet A

Calculator for decimals

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. The leg adjacent to a $27°$ angle in a right triangle is 30. Find the opposite leg (nearest tenth). EASY

2. A right triangle has hypotenuse 40 and an acute angle of $30°$. Find the side opposite that angle (nearest tenth).

EASY

3. The leg adjacent to a $26°$ angle in a right triangle is 37. Find the opposite leg (nearest tenth). EASY

4. A right triangle has hypotenuse 31 and an acute angle of $61°$. Find the side adjacent to that angle (nearest tenth).

MEDIUM

5. The leg adjacent to a $61°$ angle in a right triangle is 8. Find the opposite leg (nearest tenth). MEDIUM

6. A right triangle has hypotenuse 18 and an acute angle of $48°$. Find the side opposite that angle (nearest tenth).

MEDIUM

7. The leg adjacent to a $26°$ angle in a right triangle is 25. Find the opposite leg (nearest tenth). MEDIUM

8. A right triangle has legs 12 (opposite $\angle A$) and 15 (adjacent). Find $m\angle A$ to the nearest tenth of a degree.

HARD

9. A right triangle has legs 19 (opposite $\angle A$) and 9 (adjacent). Find $m\angle A$ to the nearest tenth of a degree.

HARD

10. A right triangle has legs 4 (opposite $\angle A$) and 17 (adjacent). Find $m\angle A$ to the nearest tenth of a degree.

HARD