Lesson 7.1 Practice: The Area of a Triangle

School Launch · Trigonometry · Unit 7: Oblique Triangles: The Laws of Sines and Cosines · 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 area of a triangle with sides 13 and 14 and included angle $108°$ (nearest tenth). EASY

2. Find the area of a triangle with sides 10 and 16 and included angle $153°$ (nearest tenth). EASY

3. Find the area of a triangle with sides 3 and 17 and included angle $147°$ (nearest tenth). EASY

4. Find the area of a triangle with sides 25 and 20 and included angle $147°$ (nearest tenth). MEDIUM

5. Find the area of a triangle with sides 22 and 24 and included angle $90°$ (nearest tenth). MEDIUM

6. Find the area of a triangle with sides 14 and 24 and included angle $30°$ (nearest tenth). MEDIUM

7. Find the area of a triangle with sides 15 and 6 and included angle $79°$ (nearest tenth). MEDIUM

8. Use Heron's formula to find the area of a triangle with sides 10, 12, 16 (nearest tenth). HARD

9. Use Heron's formula to find the area of a triangle with sides 12, 6, 11 (nearest tenth). HARD

10. Use Heron's formula to find the area of a triangle with sides 13, 13, 7 (nearest tenth). HARD