Lesson 7.2 Practice: The Law of Sines

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. In $\triangle ABC$, $A = 77°$, $B = 33°$, $a = 22$. Find C and b (nearest tenth). EASY

2. In $\triangle ABC$, $A = 47°$, $B = 71°$, $a = 24$. Find C and b (nearest tenth). EASY

3. In $\triangle ABC$, $A = 45°$, $B = 80°$, $a = 6$. Find C and b (nearest tenth). EASY

4. In $\triangle ABC$, $A = 37°$, $B = 63°$, $a = 14$. Find C and b (nearest tenth). MEDIUM

5. In $\triangle ABC$, $A = 72°$, $B = 76°$, $a = 8$. Find C and b (nearest tenth). MEDIUM

6. In $\triangle ABC$, $A = 50°$, $B = 64°$, $a = 23$. Find C and b (nearest tenth). MEDIUM

7. In $\triangle ABC$, $A = 34°$, $B = 52°$, $a = 5$. Find C and b (nearest tenth). MEDIUM

8. In $\triangle ABC$, $A = 61°$, $B = 80°$, $a = 21$. Find C and b (nearest tenth). HARD

9. In $\triangle ABC$, $A = 26°$, $B = 52°$, $a = 25$. Find C and b (nearest tenth). HARD

10. In $\triangle ABC$, $A = 27°$, $B = 56°$, $a = 10$. Find C and b (nearest tenth). HARD