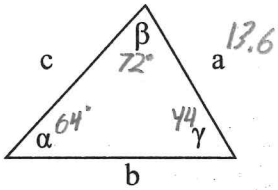
Trigonometry Exam Chapter 5 Form Z
NOTE: Figures are <u>not</u> drawn to scale.

9/11

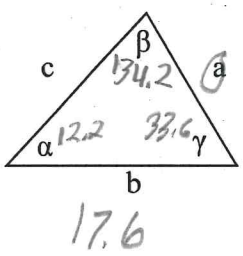
D 1. Solve for side c if α = 64°, β = 72°, and side a = 13.6.




A. 17.6 B.12.85 C. 14.39 D. 10.51

$$\frac{c}{\sin 44} = \frac{13.6}{\sin 64}$$

A 2. Solve for side a if α = 12.2°, γ = 33.6°, and side b = 17.6.

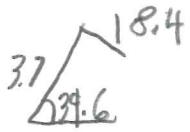



A. 5.2 B. 13.6 C. 6.72 D. 46.09

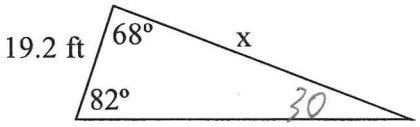
$$\frac{a}{\sin 12.2} = \frac{17.6}{\sin 134.2}$$

B 3. How many possible triangles are formed in the SSA case by a= 3.7, b= 18.4, and B= 39.6°?

A. none B. one C. two D. three




D 4. Find the length marked x in the figure.

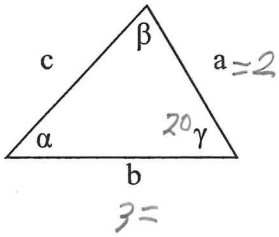



A. 17.98 ft C. 35.6 ft
B. 20.51 ft D. 38.03 ft

$$\frac{x}{\sin 82} = \frac{19.2}{\sin 30}$$

B 5. Given side a = 2, angle γ = 20°, and side b = 3, which would be used to find side c?

A. Law of Sines
B. Law of Cosines
C. Pythagorean Theorem
D. Heron's Formula




P