

8.3 trigonometry.notebook February 05, 2020

Investigating Trigonomentric Ratios

Trigon - latin word for triangle metry - greek/latin word relating to measurements

Trigonometry = method for finding measurements of triangles including angles and sides

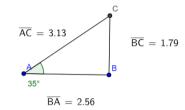
Trigonometric Ratio = A ratio of two sides of a right triangle

INVESTIGATING TRIGONOMETRIC RATIOS

Go to https://ggbm.at/AwbdW52h. You should see a geogebra right triangle.

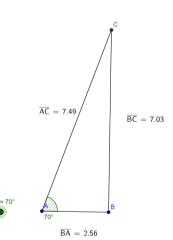
- **1.** Set your triangle so that Angle $A = 35^{\circ}$.
- 2. Change the length of the sides.
- **3.** Complete the table for 3 different side <u>lengths</u>, <u>but</u> keep Angle A at 35°.

Angle A	Length BC	Length AC	Length BC Length AC	
35°	1.79	3.13	1.79 = .5	٦'
35°				
35°				



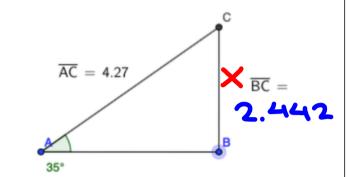
- **4.** Set your triangle so that Angle $A = 70^{\circ}$.
- **5.** Change the length of the sides.
- **6.** Complete the table for 3 different side <u>lengths</u>, <u>but</u> keep the Angle A at 70°.

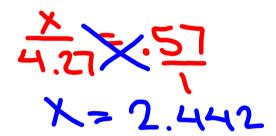
Angle A	Length	Length	Length AB
	AB	AC	Length AC
70°			.341
70°			.342
70°			



Answer each question below without using the geogebra triangle on your iPad.

8. Find the length of BC on this triangle.





9. Find the length of AB on this triangle.

