Today's Learning Goal(s):

By the end of the class, I will be able to:

- a) Understand when to use SOH CAH TOA versus the sine or cosine laws.
- b) Solve applications involving trigonometry.

1.5 Applications of Trigonometry (Day 2)

Correct p.50 #8, 10 and 11? (use following 2 pages)

Correct "Show What You Know 1.3" (SOH CAH TOA and Sine Law)

"Show What You Know 1.4" (Sine Law and Cosine Law)

(If time permits, check homework while students write the quiz.)

Complete Day 2 Homework:

p.49 #6, 7

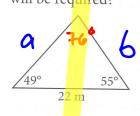
p.52 #1b, 2, 5, 8

Study for Unit 1 Summative

1.5 Applications (Day 2) Fall 2017 (Correcting Homework #8,11)-f17b.noteScepttember 15, 2017

p.50

8. A triangular garden is to be enclosed by a fence. How much fencing will be required?

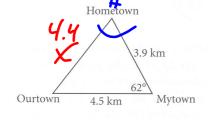


$$\frac{6}{\sin 49} = \frac{28}{\sin 76}$$

: We heed 58 m of

p.50

- 10. Three roads join Hometown, Mytown, and Ourtown.
 - a) What is the distance from Hometown to Ourtown?
 - b) What angles do the roads make at Hometown and at Ourtown?



$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

12-62+(2-26c (OSA

$$H = \sin^{-1}\left(4.5 \times \frac{\sin 62}{4.4}\right)$$

$$= 64 \text{ Th}$$

or
$$\cos H = \frac{4.4^2 + 3.9^2 - 4.5^2}{2(4.4)(3.9)}$$