Ch 8 Review

Snaked, Scavenger Hunted, etc.

Question 1

- You are standing 350 feet away from a skyscraper that is 750 feet tall. What is the angle of elevation from you to the top of the building?

Question 2

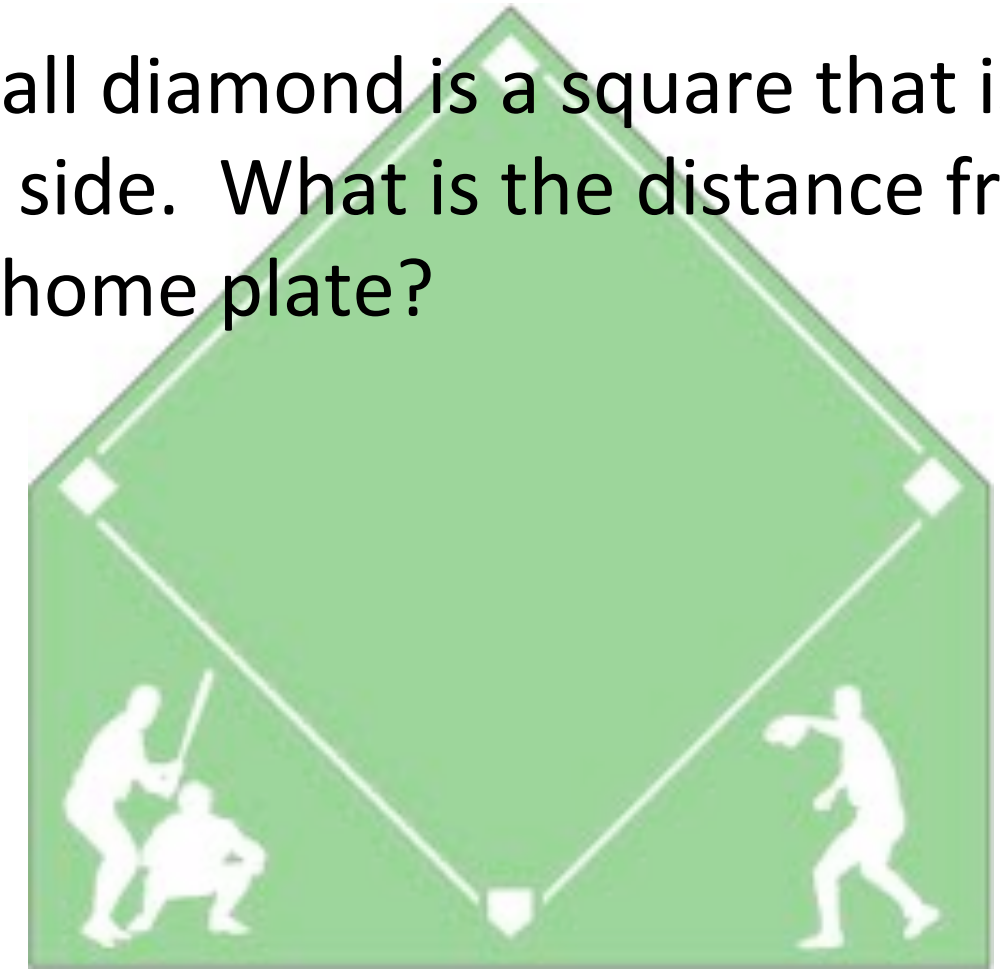
- You are attending a concert with some friends and sit halfway up the bleachers in the arena. The angle of depression from your horizontal line of sight to the stage is 24 degrees. If your seat is 45 feet above stage level, what is your actual distance from the stage?

Question 3

- Mr. Smith is measuring his television. The TV is 36 inches wide and 24 inches tall. What is the length of the diagonal on the TV?

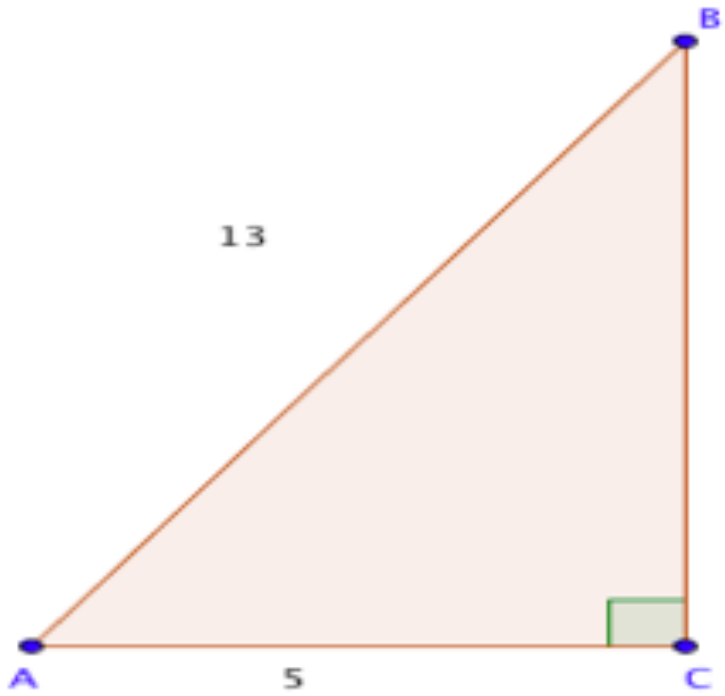
Question 4

- A baseball diamond is a square that is 90 feet on each side. What is the distance from 2nd base to home plate?



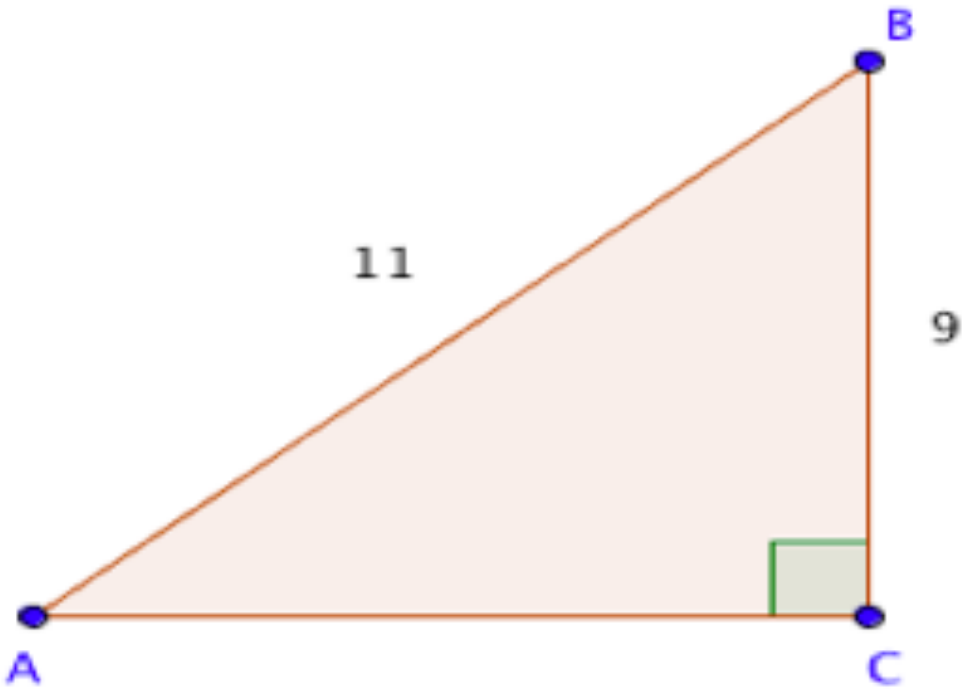
Question 6

- Find the unknown side length. Is it a Pythagorean triple?



Question 7

- Find the unknown side length. Is it a Pythagorean triple?



Question 8

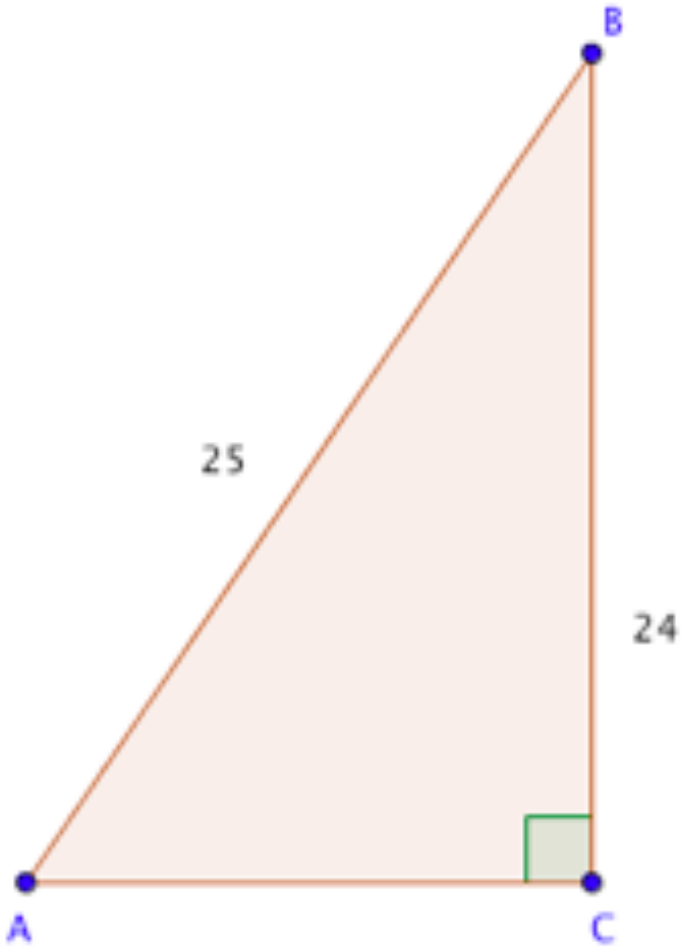
- Determine if the following lengths can form a triangle. If so, is it a right triangle? Acute? Obtuse?

  a) 36, 77, 85

  b) $\sqrt{8}$, 4, 6

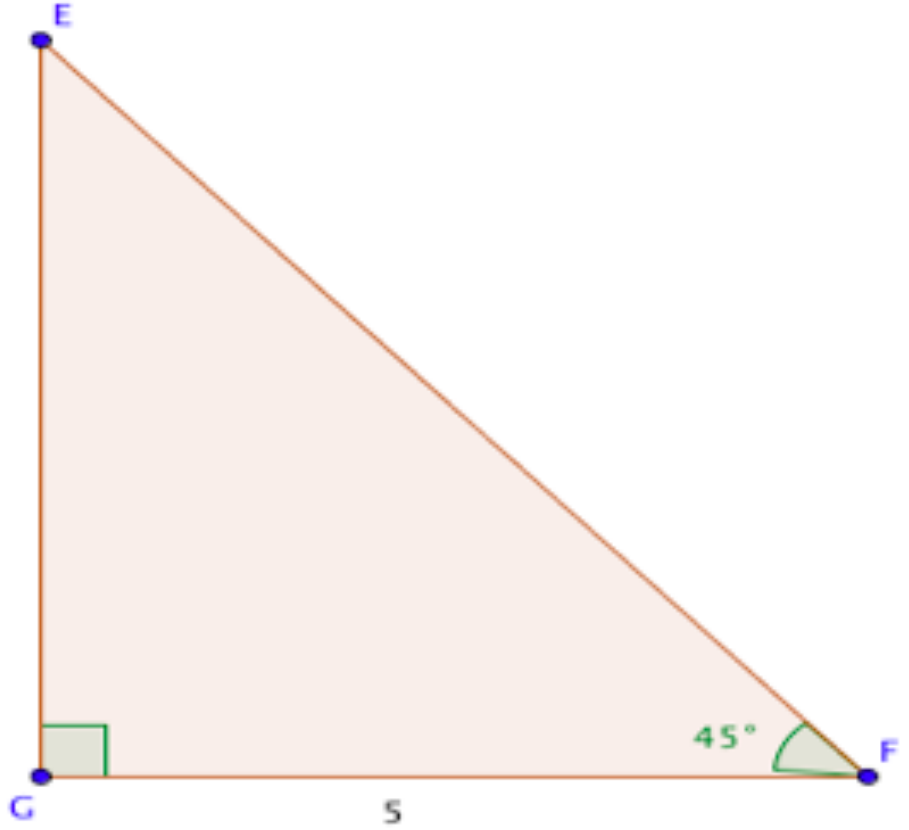
Question 9

- Solve the triangle.



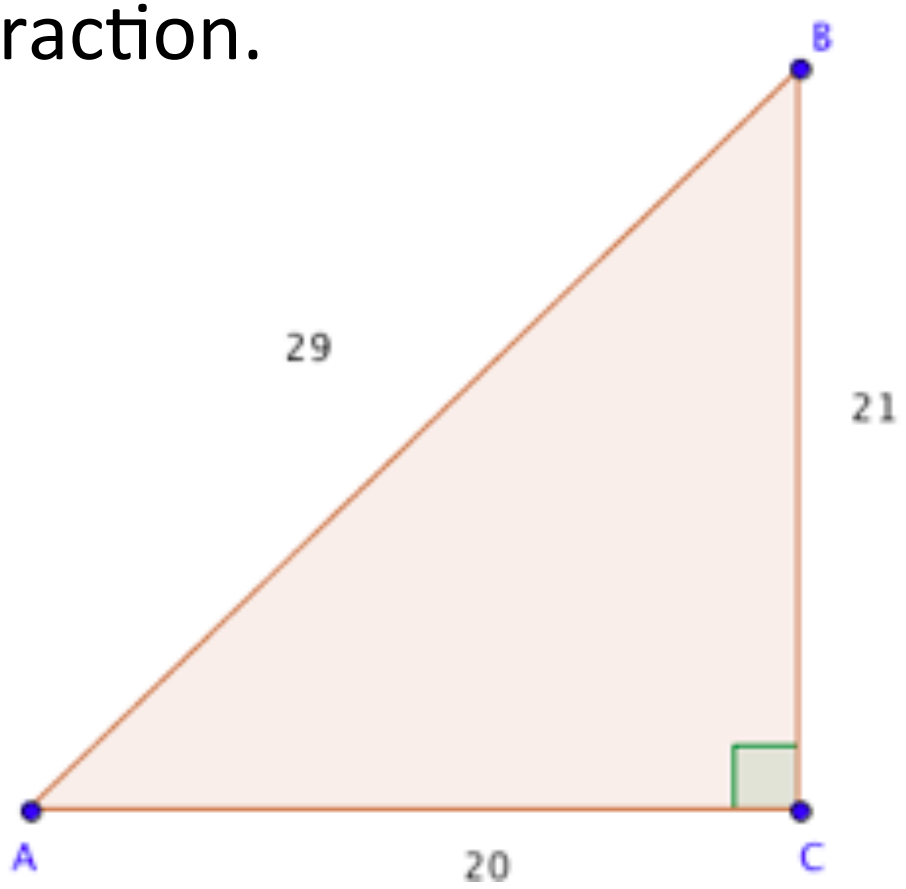
Question 10

- Solve the triangle.



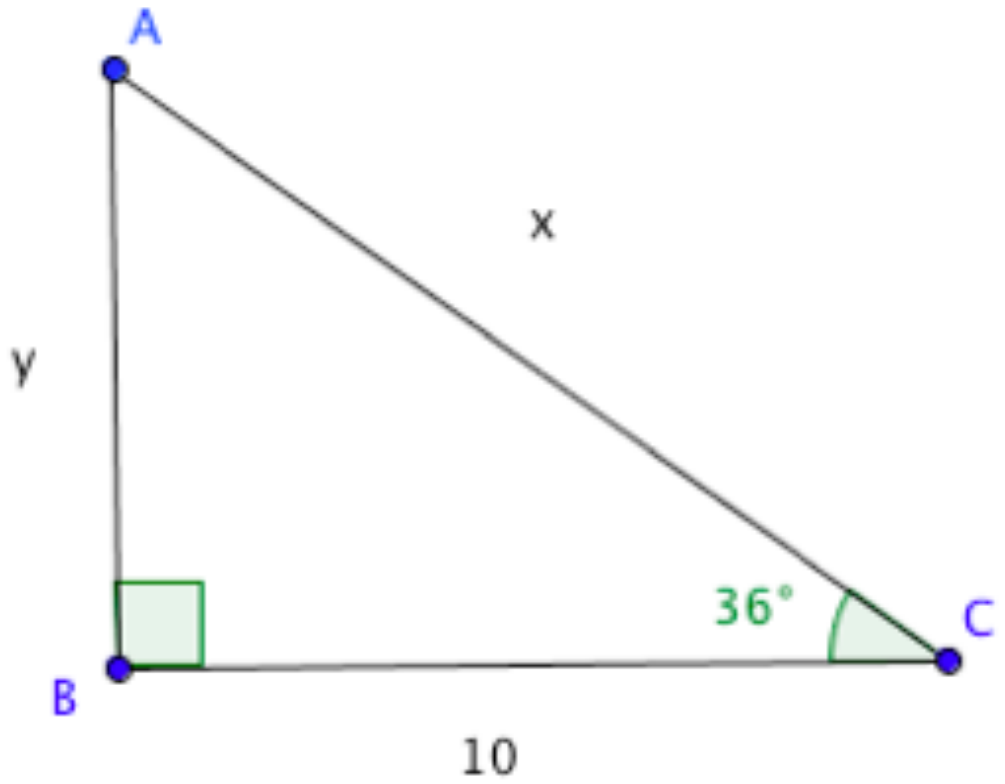
Question 11

- Find the trigonometric ratios of the triangle. Write each as a fraction.
- sinA=
- cosA=
- tanA=
- sinB=
- cosB=
- tanB=



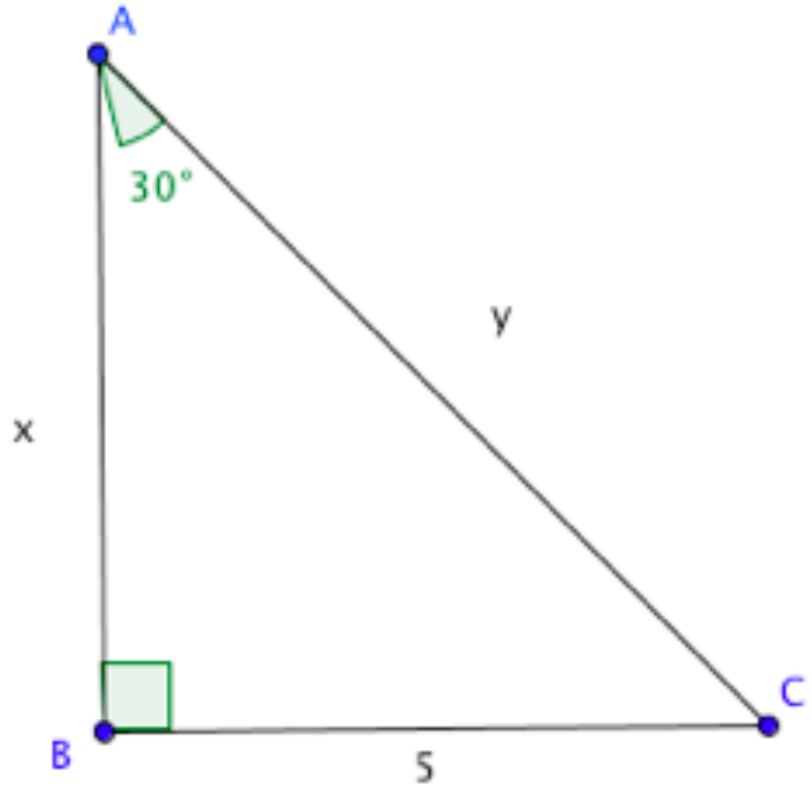
Question 12

- Find the unknown side lengths.



Question 13

- Find the unknown side lengths.



Question 14

- Simplify the radical

1. $\sqrt{320}$

2. $\sqrt{\frac{15}{125}}$

3. $\left(\frac{1}{3}\sqrt{54}\right)^2$