# Semester 1 Review
## Unit 5 – Right Triangles
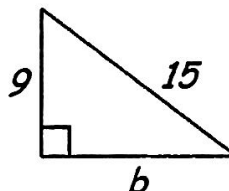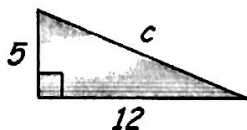
Name _____

### 1. Pythagorean Theorem (p 59 in notebook)

Review – Refer to the following website if you do not know how to solve the triangles.

https://www.mathsisfun.com/pythagoras.html

Example: Solve this triangle


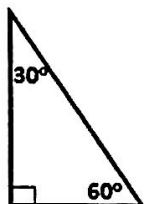
### 2. Special Right Triangles (p 60 – 62 in notebook)

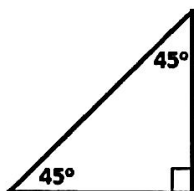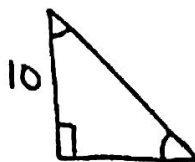Review – Watch the video if you do not know how to solve the problem.

https://www.youtube.com/watch?v=-UH2W7LBITk

Label the basic triangles.

Solve for the missing sides.



30-60-90 Triangle

45-45-90 Triangle

Show work below!

# Semester 1 Review
## Unit 5 – Right Triangles

Name _____

### 3. Trigonometry (p 63 – 68 in notebook)

#### A. Set up Ratios

https://www.khanacademy.org/math/trigonometry/trigonometry-right-triangles/intro-to-the-trig-ratios/v/basic-trigonometry

Watch video and complete 4 practice problems found in the menu on the left of the video.  Show your work below.

1.                       2.                  3.                        4.

#### B. Find a missing side

https://www.khanacademy.org/math/trigonometry/trigonometry-right-triangles/trig-solve-for-a-side/v/example-trig-to-solve-the-sides-and-angles-of-a-right-triangle

Watch video and complete 4 practice problems found in the menu on the left of the video.  Show work below.

1.                                            2.

3.                                            4.

# Semester 1 Review
## Unit 5 – Right Triangles

### C. <u>Find a missing angle</u>

<u>https://www.khanacademy.org/math/trigonometry/trigonometry-right-triangles/trig-solve-for-an-angle/a/inverse-trig-functions-intro</u>

Visit website, read the review, and complete 4 practice problems found in the menu on the left of the video.  Show work below.

1.

2.

3.

4.

### D. <u>Applications</u>

<u>https://www.khanacademy.org/math/geometry/hs-geo-trig/hs-geo-modeling-with-right-triangles/e/applying-right-triangles</u>

Visit website, read review, watch video and complete 4 practice problems.  Show work below.

1.

2.

3.

4.