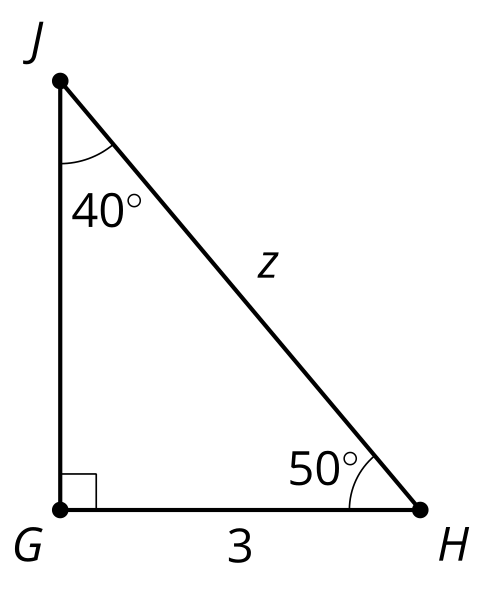
## Unit 4 Lesson 6: Working with Trigonometric Ratios

### 1 This Time with Strategies (Warm up)

#### Student Task Statement

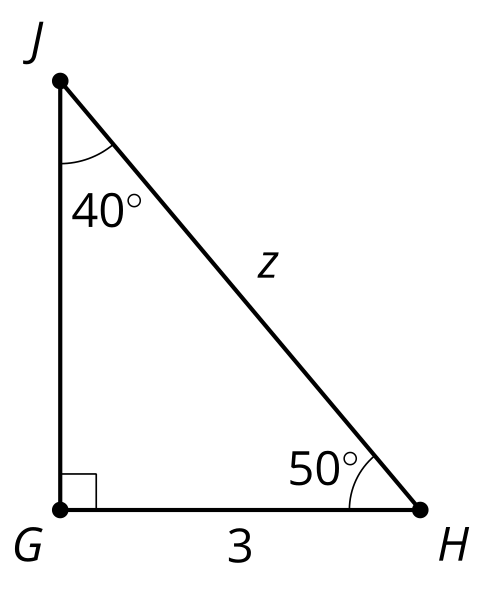
Estimate the value of .



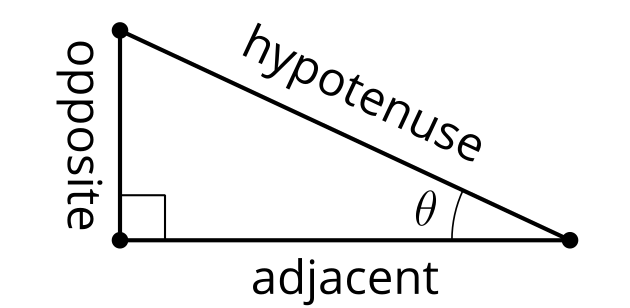
### 2 New Names, Same Ratios

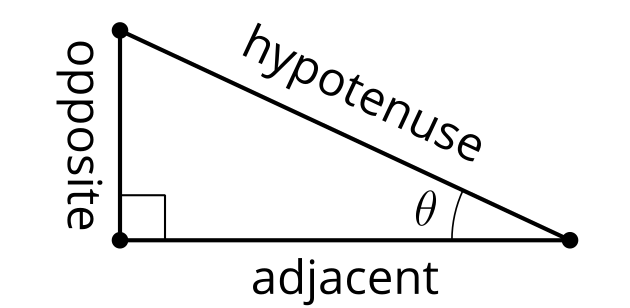
#### Student Task Statement

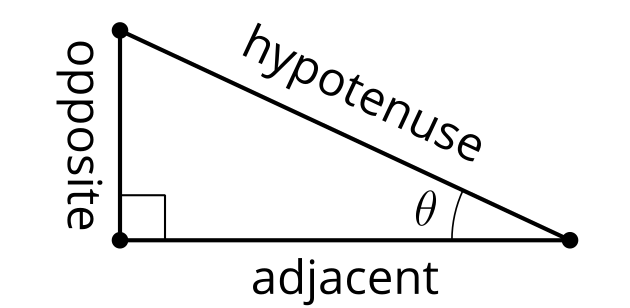
1. Use your calculator to determine the values of , , and .
2. Use your calculator to determine the values of , , and .
3. How do these values compare to your chart?
4. Find the value of .



#### Activity Synthesis



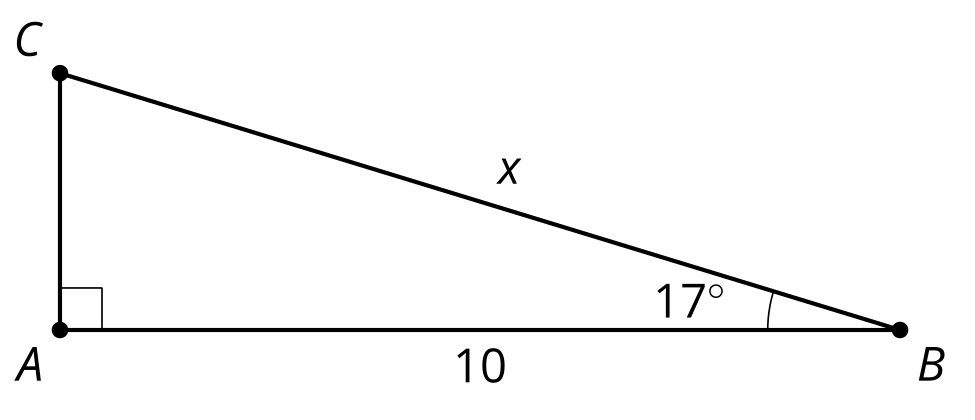




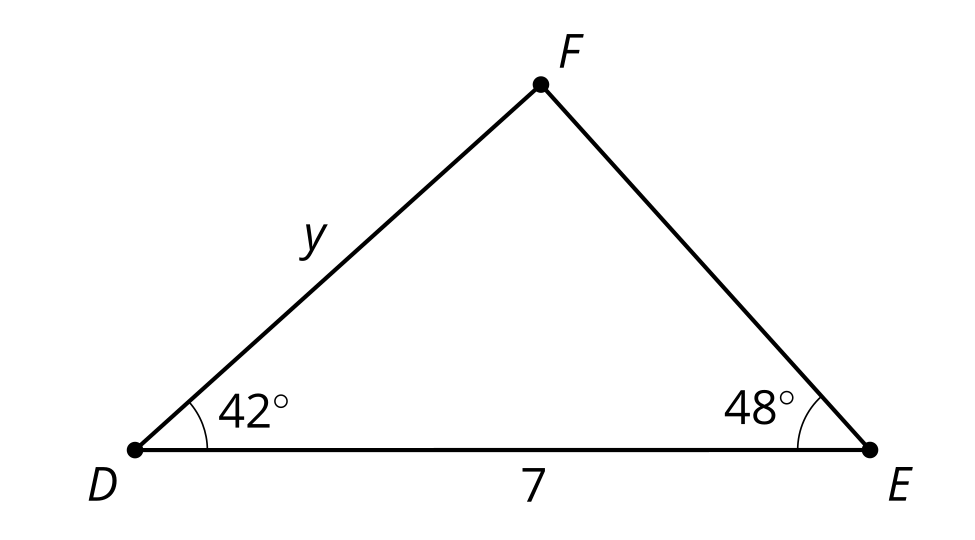
### 3 Solve These Triangles

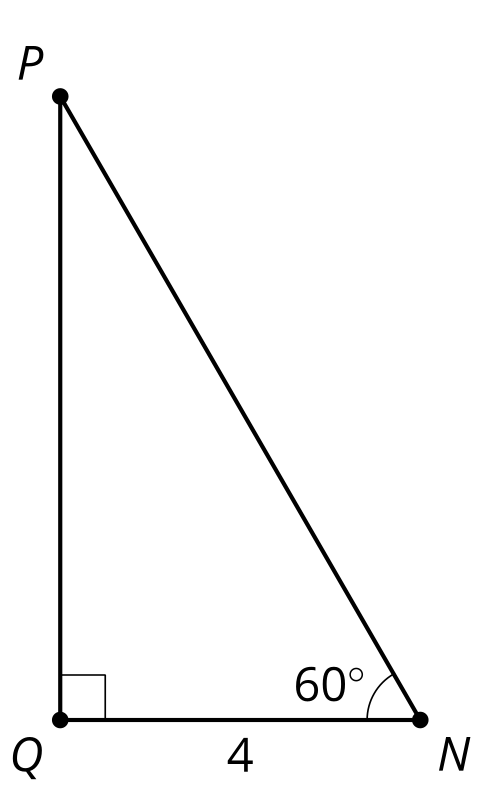
#### Student Task Statement

1. Solve for .

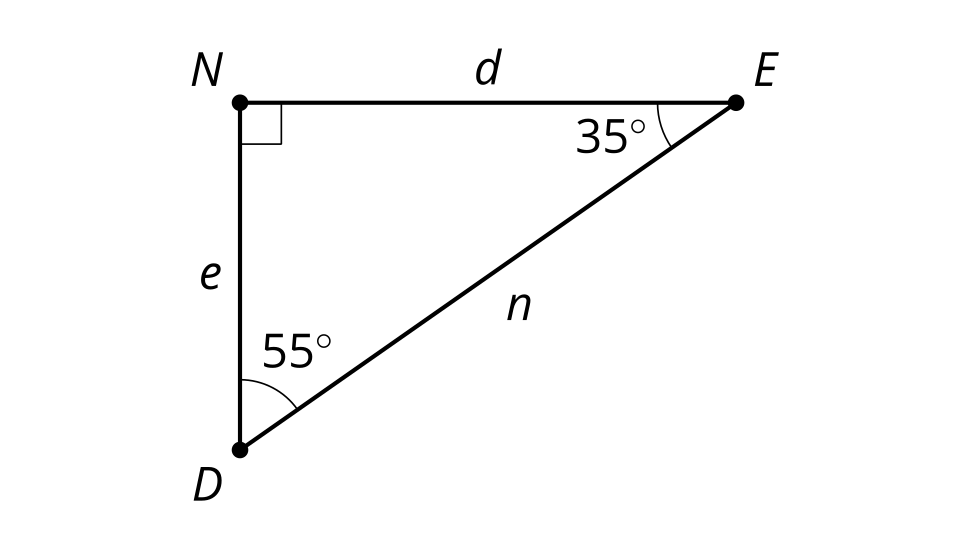
* 

1. Solve for .

* 

1. Find all the missing sides and angle measures.
   1. The measure of angle is 90 degrees and angle is 12 degrees. Side has length 2 cm.
   2. 
   3. The measure of angle is 90 degrees and angle is 71 degrees. Side has length 20 cm.

#### Images for Activity Synthesis





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