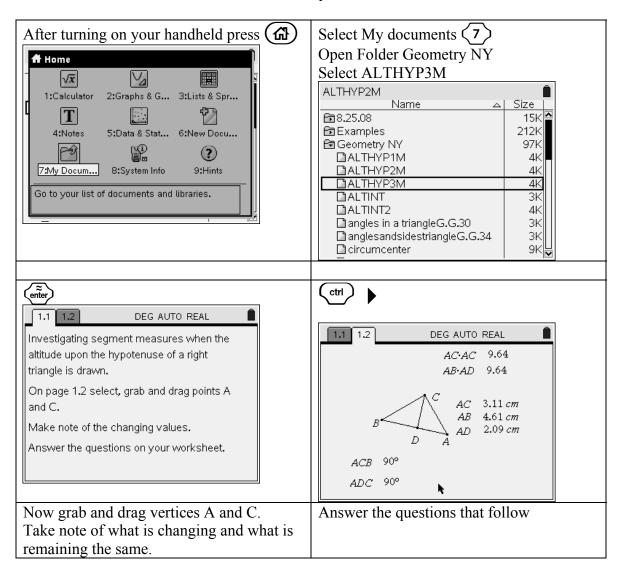
TI-84+ Student Worksheet for G.G. 47: TI-Nspire



- 1) As you selected, grabbed and moved points A and C
  - A) What changed?
  - B) What remained the same?
- 2) What kind of triangle is  $\triangle ABC$ ?
- 3) Name the hypotenuse of ΔABC.

4)	$\overline{CD}$ must be a(an)
	A) median
	B) angle bisector
	C) altitude
	D) perpendicular bisector
5)	Name the segments of the hypotenusef
6)	Name the legs of $\triangle ABC$ .
7)	Which segment of the hypotenuse is adjacent to leg AC?
8)	Which of the following statements seems to be true?  A) AC*AC > AB*AD  B) AC*AC = AB*AD  C) AC*AC < AB*AD
9)	The answer to question 7 allows us to rewrite the expression as a proportion. Fill in the missing extremes: $\frac{?}{AC} = \frac{AC}{?}$
10)	The answer to question 7 allows us to rewrite the expression as a proportion. Fill in the missing means: $\frac{AB}{?} = \frac{?}{AD}$
11)	When the means of a proportion are the same that value is called the <b>mean proportional</b> . Example: $\frac{a}{x} = \frac{x}{b}$ In this proportion $x$ is the <b>mean proportional</b> between $a$ and $b$ . Using this example as a guide and your answers to questions 6 and 7 fill in the blanks of the following statement:
	AC is the between and
12)	Using your answers to questions 3 through 6 generalize the answer to question 8.
If t	he altitude is drawn upon the hypotenuse of a right triangle then the
is t	he mean proportional between the