	Period:		Mr. Valentino					
hypoxx ~ishx	12	nage below shows a pw? 14 15. Triangle 2 7 Not sure where to s	49 + 62 = 72 + 142 = 72 + 142 = 72 + 143 = 745	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2+6 2+5 50= 50= 50= 50= 50= 50= 50= 50= 50= 50	12 - 12 12 - 12 150 1512	$6^2 + (5\sqrt{2})^2$ REPARAL FLOAT AUTO REAL DEGREE 15 ² +(5 $\sqrt{2}$) ² (7. $\sqrt{5}$) ³ HAL FLOAT AUTO REAL DEGREE 15	= (745) 1 1 275 245
	5/A 4		Discove 12 C 10 70	L	12	3	15,652	
		9 B 8	2 150	11 10	-	35°	F 16	· ·
	Triangle	a ² (smallest side)	b ² (middle side)	(longest side)		$a^2 + b^2$	Type of Triangle (acute, obtuse, right)	
	А	3 ² =9	42=16	52=25	11	25	right	
	В	62=36	82=64	92=81	<	100	acnte	
	С	102=100	122=144	125 = 552	<	244	acute	
	D	22 = 4	102=100	112= 121	>	104	obtuse	
	E	52-25	122=144	132=169	11	169	right	
	F	102=166	102 = 100	16 ² = 256	>	200	Obtuse	

Observation Questions

1. Take a look at the triangles you classified as acute. What is the relationship between c^2 and $a^2 + b^2$?

(2 is less than a2+b2

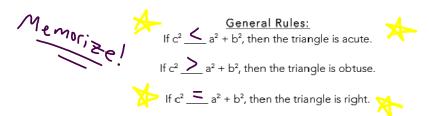
2. Take a look at the triangles you classified as obtuse. What is the relationship between c^2 and $a^2 + b^2$?

c2 is greater than a2+b2

3. Take a look at the triangles you classified as right. What is the relationship between c^2 and $a^2 + b^2$?

(2 is equal to a2+62

4. Fill in the blank column in the table with the correct symbol (greater than >, less than <, or equal to =) that relates c^2 to a^2+b^2

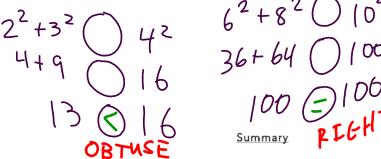


Practice Problems:

1. Given the following sets of sides lengths of a triangle, determine the type of triangle (acute, obtuse, right).

a. 2, 3, 4

12 ± e² () 10²



What are two different ways to determine if a triangle is acute, obtuse, or right?

1.

2.