

Pythagorean Inequality Theorem

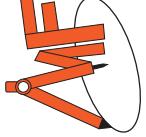
Name _____

Score _____

TI:15

Let a , b , and c are the sides of the triangle. c is the longest side of the triangle. Complete the table.

a	b	c	a^2	b^2	$a^2 + b^2$	c^2	$a^2 + b^2 > c^2$	$a^2 + b^2 < c^2$	$a^2 + b^2 = c^2$	Acute/Obtuse/Right Triangle
20 yd	21 yd	29 yd								
7 in	8 in	9 in								
10 ft	11 ft	16 ft								
19 yd	13 yd	22 yd								
12 in	16 in	24 in								
10 ft	24 ft	26 ft								



Pythagorean Inequality Theorem

Answer key

Name _____

Score _____

TI:15

Let a , b , and c are the sides of the triangle. c is the longest side of the triangle. Complete the table.

a	b	c	a^2	b^2	$a^2 + b^2$	c^2	$a^2 + b^2 > c^2$	$a^2 + b^2 < c^2$	$a^2 + b^2 = c^2$	Acute/Obtuse/Right Triangle
20 yd	21 yd	29 yd	400	441	841	841	=			Right Triangle
7 in	8 in	9 in	49	64	113	81	>			Acute Triangle
10 ft	11 ft	16 ft	100	121	221	256	<			Obtuse Triangle
19 yd	13 yd	22 yd	361	169	530	484	>			Acute Triangle
12 in	16 in	24 in	144	256	400	576	<			Obtuse Triangle
10 ft	24 ft	26 ft	100	576	676	676	=			Right Triangle