

Pythagorean Inequality Theorem

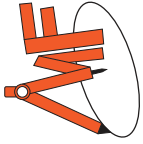
Name _____

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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
11 in	10 in	14 in						
20 ft	21 ft	30 ft						
8 yd	15 yd	17 yd						
4 in	9 in	10 in						
12 ft	16 ft	20 ft						
18 yd	19 yd	22 yd						



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Answer key

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
11 in	10 in	14 in	121	100	221	196	>	Acute Triangle
20 ft	21 ft	30 ft	400	441	841	900	<	Obtuse Triangle
8 yd	15 yd	17 yd	64	225	289	289	=	Right Triangle
4 in	9 in	10 in	16	81	97	100	<	Obtuse Triangle
12 ft	16 ft	20 ft	144	256	400	400	=	Right Triangle
18 yd	19 yd	22 yd	324	361	685	484	>	Acute Triangle