

# Monday, April 15, 2019

## • Warm-up

Right, Equilateral, Isosceles, Scalene

- Do the following length measurements form a triangle? What kind of triangle? How do you know?

- $a = 5, b = 7, c = 13$

No  $\rightarrow 5 + 7 < 13$   
won't work



- $a = 3, b = 4, c = 5$

$$3 + 4 = 7$$

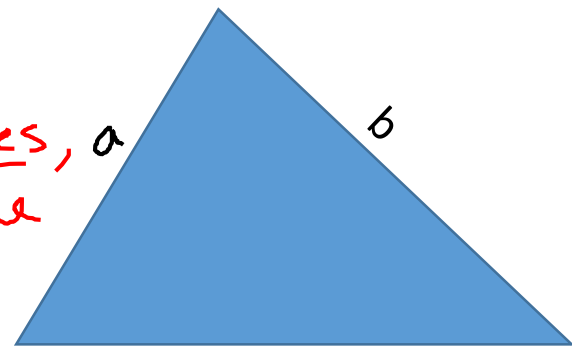
$$7 > 5 \quad \star$$

Pythagorean theorem  
Right Scalene

- $a = 4, b = 4, c = 7$

$$4 + 4 = 8 \quad 8 > 7 \quad \star$$

Isosceles (not Right  $\Delta$ )



Triangle Inequality

$$a + b > c$$

$$3^2 + 4^2 \stackrel{?}{=} 5^2$$

$$25 = 25$$

~~$$4^2 + 4^2 = 7^2$$~~  
~~$$16 + 16 = 49$$~~

- Talk about tests
- Review Pythagorean Theorem
- Practice

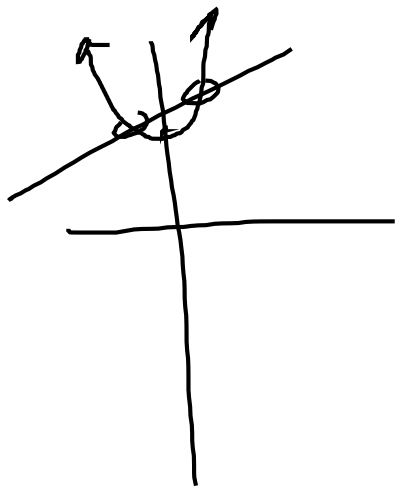
### Objectives

**Content:** I will review previously learned facts about triangles.

**Social:** I will work with my new group, making sure that everyone has an opportunity to contribute.

**Language:** I will write clear notes so that I can use them during future tests

# Talk about Tests...



$$\begin{array}{r} x^2 + 8 = x + 10 \\ -x - 10 \quad -x \quad -10 \end{array}$$

$$x^2 - x - 2 = 0$$

$$(x-2)(x+1) = 0$$

x	y
3	2

;) matches

x	y
3	2

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# Brain Break



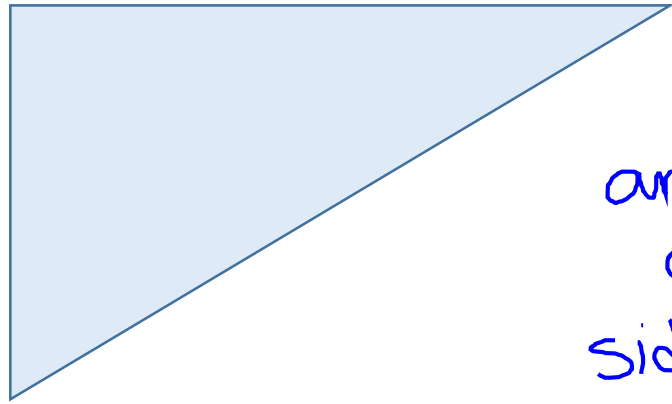
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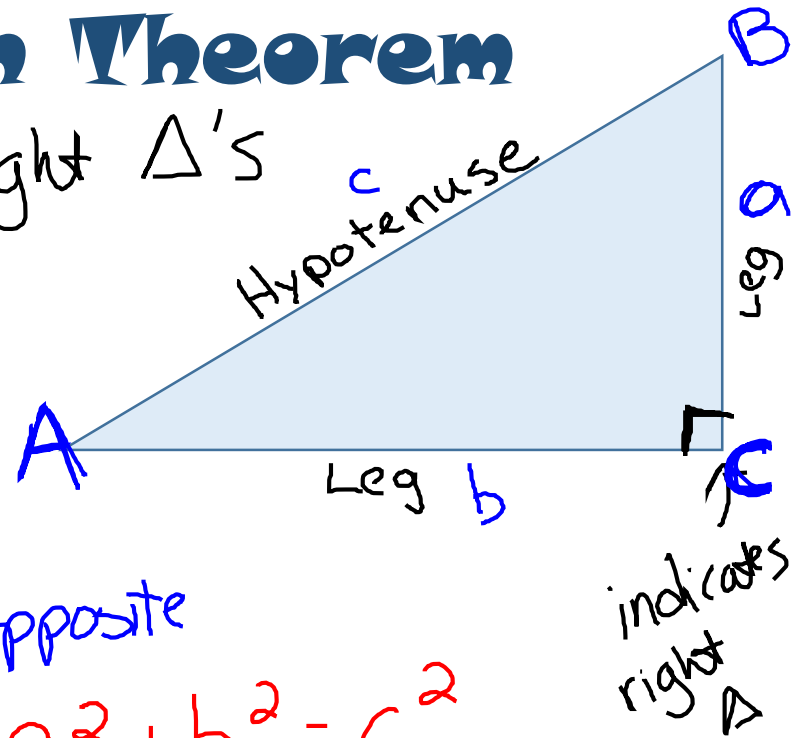
# Review Pythagorean Theorem



Only Right  $\Delta$ 's

angles  
are uppercase  
sides are  
lowercase  
same letters opposite

$$a^2 + b^2 = c^2$$

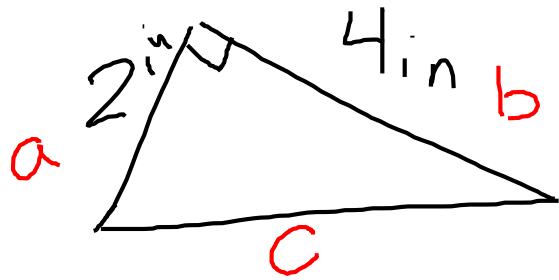


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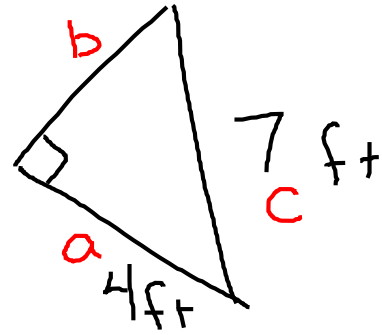
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$$a^2 + b^2 = c^2$$



① label  $\triangle$

② fill in formula:  $2^2 + 4^2 = c^2$

③ Solve for unknown:  $4 + 16 = c^2$

$$\sqrt{20} = \sqrt{c^2}$$

$$4.472 = c$$

④ Write answer  
w/label:

4.472 in

$$4^2 + b^2 = 7^2$$

$$16 + b^2 = 49$$

$$\begin{array}{r} -16 \\ \sqrt{b^2} = \sqrt{33} \end{array}$$

$$b = 5.744 \text{ ft}$$

# Mad Lib Practice

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