2.1 <u>Pythagorean Theorem</u>

pp 46 - 53

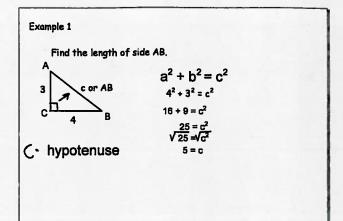


$$a^2 + b^2 = c^2$$

The theorem is used to find the missing side of a right triangle.

The longest side of a right triangle is called the <u>hypotenuse</u>. It is represented by the letter c .

The other two sides are called legs and are represented by the letters a and b.



Example 2

Find the length of side b.

$$a^{2} + b^{2} = c^{2}$$
or
$$b^{2} = c^{2} - a^{2}$$

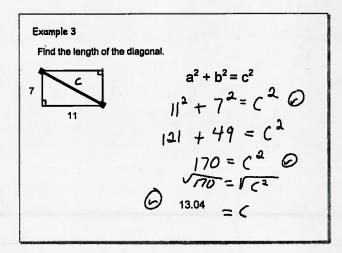
$$b^{2} = 12^{2} - 5^{2}$$

$$b^{2} = 144 - 25$$

$$b^{2} = 119$$

$$\sqrt{b^{2}} = 119$$

$$\sqrt{b^{2}}$$



Friday - February 17th

Period Two(Rm 301) and Period Four (Rm 305) MFM 2P

- 1. Copy Example One pg 47-48 (Neatly . .can't read zero)
- 2. Copy Example Two pg 48 (Neatly . .can't read zero)
- 3. Pythagorean Theorem Pg50-53 #2a,c, 3a,c, 5,7a,b 10,12,13

Hand in all three! I will not mark 2 or 3 if you do not do #1 and #2. Due at end of class.