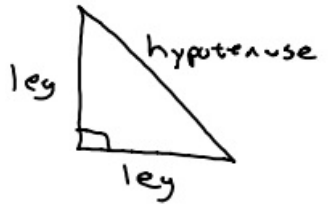
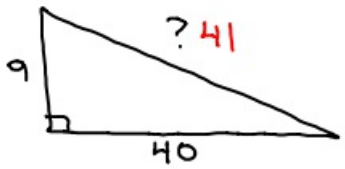
8-20-19 2nd Geo

Pythagorean Theorem

Right Triangles



$leg^2 + leg^2 = hyp^2$



$leg^2 + leg^2 = hyp^2$

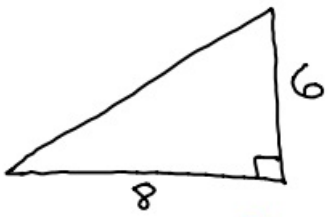
$9^2 + 40^2 = hyp^2$

$81 + 1600 = hyp^2$

$\sqrt{1681} = \sqrt{hyp^2}$

$41 = hyp$

(1)



$leg^2 + leg^2 = hyp^2$

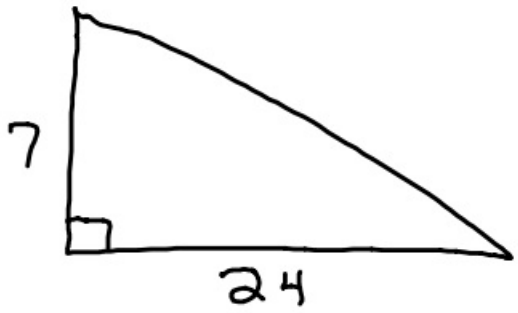
$8^2 + 6^2 = hyp^2$

$64 + 36 = hyp^2$

$\sqrt{100} = \sqrt{hyp^2}$

$10 = hyp$

(2)



$leg^2 + leg^2 = hyp^2$

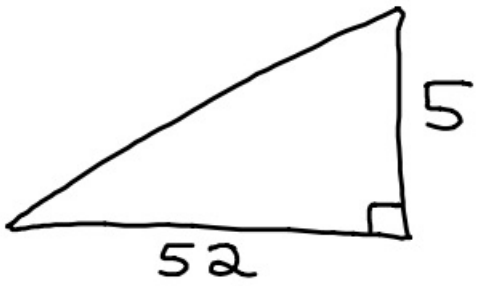
$7^2 + 24^2 = hyp^2$

$49 + 576 = hyp^2$

$\sqrt{625} = \sqrt{hyp^2}$

$25 = hyp$

(3)



$leg^2 + leg^2 = hyp^2$

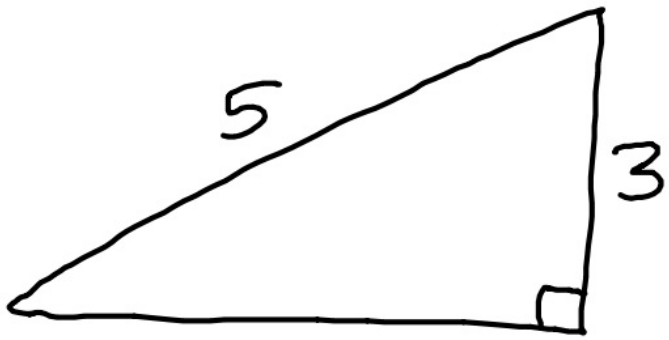
$52^2 + 5^2 = hyp^2$

$2704 + 25 = hyp^2$

$\sqrt{2729} = \sqrt{hyp^2}$

$52.2 \approx hyp$

4



$$leg^2 + leg^2 = hyp^2$$

$$leg^2 + 3^2 = 5^2$$

$$leg^2 + 9 = 25$$

$$-9 \quad -9$$

$$\sqrt{leg^2} = \sqrt{16}$$

$$leg = 4$$