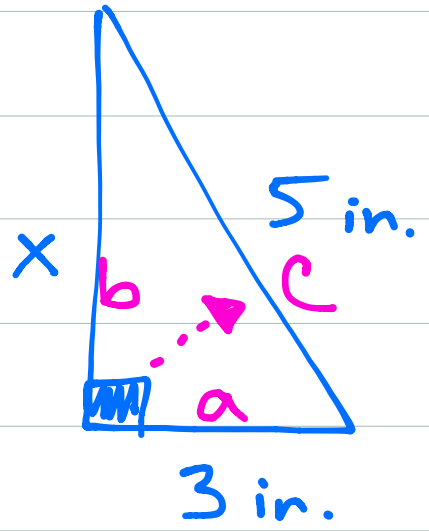
# 7.0 Notes




Solve Right Δ.

Pythagorean Theorem

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

$3^2 + x^2 = 5^2$

$9 + x^2 = 25$

$x^2 = 16$

$x = 4$ in.

Pyth. Triple: 3, 4, 5

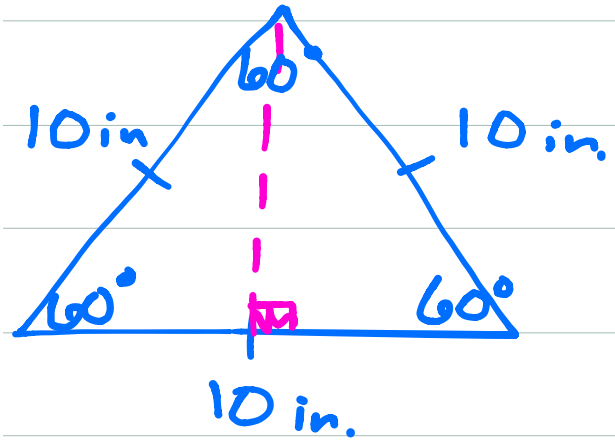
6, 8, 10

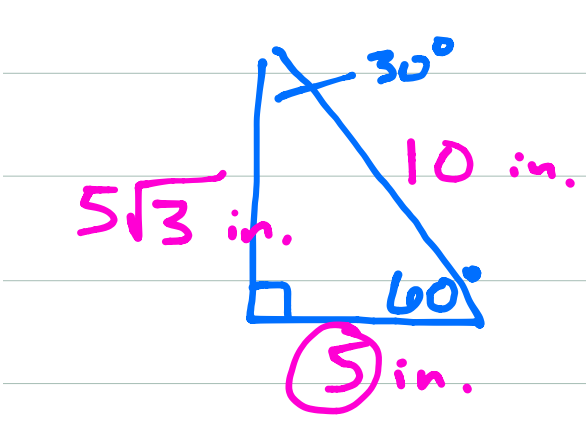
7, 24, 25

5, 12, 13

# Special Right △'s

## 30°-60°-90°



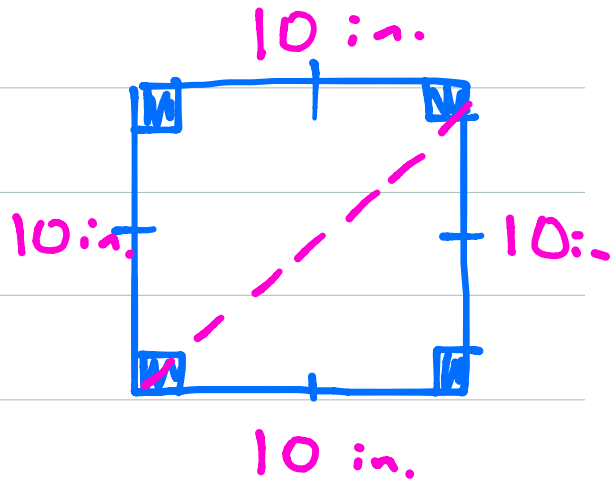

$5^2 + x^2 = 10^2$

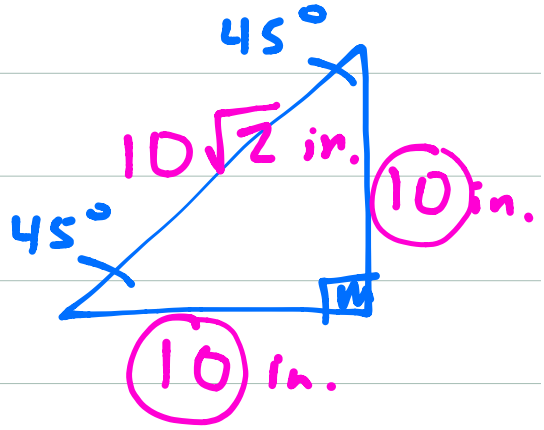
$25 + x^2 = 100$

$x^2 = 75$

$x = \sqrt{75}$

## 45°-45°-90°




$10^2 + 10^2 = c^2$

$100 + 100 = c^2$

$\sqrt{200} = \sqrt{c^2}$

$\sqrt{25} \cdot \sqrt{3}$

$5\sqrt{3}$

$10\sqrt{2} : c$