Converse of Pythagorean Theorem

- Determines IF a triangle is a right triangle by using $a^2+b^2=c^2$.
- Pythagorean Triples: A set of 3 POSITIVE INTEGERS such that $a^2+b^2=c^2$.

Ex. Determine if each set of #s form a Pythagorean Triple.

30, 40, 50

$30^2 + 40^2 = 50^2$

$900 + 1600 = 2500$

$2500 = 2500$ YES

Ex. Determine if the set of #s form a right Triangle.

4.3, 8.3, 6.9

$4.3^2 + 6.9^2 = 8.3^2$

$18.49 + 47.61 = 68.89$

$66.1 \neq 68.9$ NO