

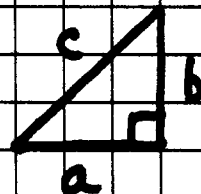
PYTHAGOREAN THEOREM | Per.

NAME:

"THE SQUARE OF THE HYPOTENUSE EQUALS
THE SUM OF THE SQUARES OF THE OTHER
TWO SIDES"

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

WHERE:



EXAMPLE: Find c^2 GIVEN THIS RIGHT TRIANGLE



SINCE:

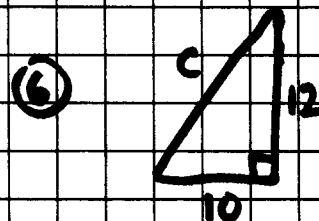
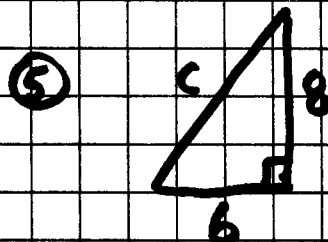
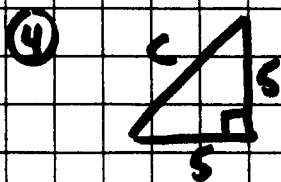
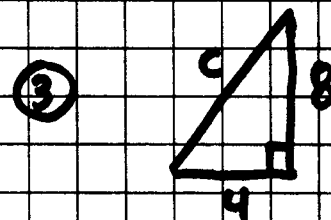
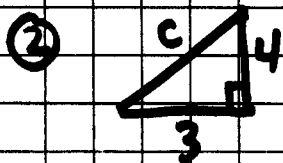
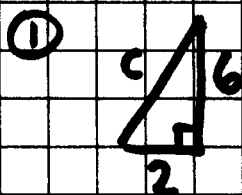
$$\left. \begin{array}{l} a=4 \\ b=5 \end{array} \right\}$$

$$c^2 = 4^2 + 5^2$$

$$c^2 = 16 + 25$$

$$c^2 = 41 \leftarrow \text{ANSWER}$$

Find c^2



HOW CAN YOU FIND c IF YOU KNOW c^2 ?