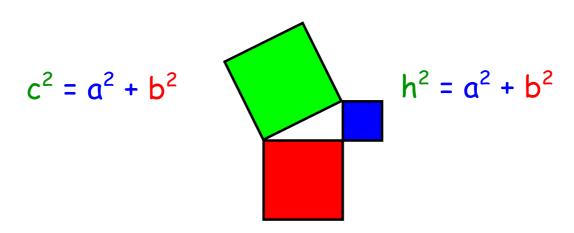


Tythagorean Theorem



$$c^{2} = a^{2} + b^{2} \qquad h^{2} = a^{2} + b^{2}$$

$$\chi^{2} = (\sqrt{7})^{2} + (5\sqrt{3})^{2}$$

$$\chi^{2} = 7 + 35(3)$$

$$\chi^{3} = 7 + 75$$

$$\chi^{3} = 82$$

$$\chi = 9.1$$

$$c^{2} = a^{2} + b^{2} \qquad h^{2} = a^{2} + b^{2}$$

$$11\sqrt{2}$$

$$(||\sqrt{2}|)^{2} = (6)^{3} + \chi^{3}$$

$$||\lambda|(3) = 36 + \chi^{3}$$

Determine the length of the diagonal.

$$h^2 = a^2 + b^2$$

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

$$\sqrt{2}$$

$$3\sqrt{5}$$

$$h^{2} = a^{2} + b^{2}$$

$$\chi^{3} = (\sqrt{3})^{3} + (\sqrt{3})^{2}$$

$$\chi^{4} = 2 + 9(5)$$

$$\chi^{3} = 3 + 45$$

$$\chi^{2} = 47$$

$$\chi = 6.9$$

Tricky:)

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

HM=11, HT = 20, MA=14

What is the length of AT?

 $h^0 = a^0 + b^0$
 $(11)^0 = (6)^0 + \chi^0$
 $\lambda = 121$
 $\lambda = 9.2$