



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

ABH ~ ABC ~ BCH по 2 углам (A=A, AHB=B, C=C, BHC=B)

$$a/c = k/a = h/b \quad a/b = h/d = k/h \quad b/c = a/h = d/b$$

ABH ~ ABC ABH ~ BCH ABC ~ BCH

$$1. a^2/c = k = ah/b$$

$$a^2 = kc = ahc/b$$

$$3. b^2/c = ab/h = d$$

$$b^2 = abc/h = cd$$

$$a^2 + b^2 = kc + cd$$

$$a^2 + b^2 = c(k + d)$$

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

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

