

$$1) \quad A = (1, 1, 1) \quad B = (2, 3, 3) \quad C = (1, 4, -3)$$

$$|AB| = \sqrt{(2-1)^2 + (3-1)^2 + (3-1)^2} = \sqrt{1+4+4} = 3 = a$$

$$|BC| = \sqrt{(1-2)^2 + (4-3)^2 + (-3-3)^2} = \sqrt{1+1+36} = \sqrt{38} = c$$

$$|AC| = \sqrt{(1-1)^2 + (4-1)^2 + (-3-1)^2} = \sqrt{0+9+16} = 5 = b$$

z tw. Pit

$$3^2 + 5^2 = c^2$$

$$\sqrt{9+25} = c$$

$$c = \sqrt{34} \neq \sqrt{38}$$

To nie 

$$P = (x_P, y_P, z_P)$$

$$Q = (x_Q, y_Q, z_Q)$$

$$|PQ| = \sqrt{(x_Q - x_P)^2 + \dots}$$

$$\dots + (y_Q - y_P)^2 + (z_Q - z_P)^2$$