

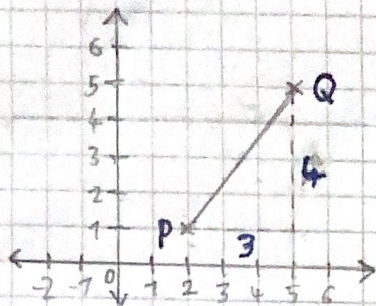
Stufe 10

18.08.2025

AB Satzgruppe des Pythagoras - Übungsaufgaben

Aufgabe 3:

a)



$$a=3; b=4$$

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

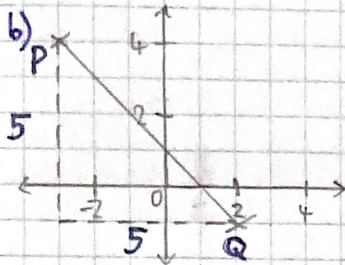
$$3^2 + 4^2 = c^2$$

$$9 + 16 = c^2$$

$$25 = c^2 \quad | \sqrt{}$$

$$5 = c$$

b)



$$a=5; b=5$$

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

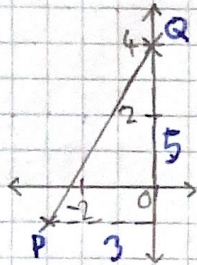
$$5^2 + 5^2 = c^2$$

$$25 + 25 = c^2$$

$$50 = c^2 \quad | \sqrt{}$$

$$7,1 \approx c$$

c)



$$a=3; b=5$$

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

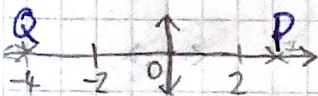
$$3^2 + 5^2 = c^2$$

$$9 + 25 = c^2$$

$$34 = c^2 \quad | \sqrt{}$$

$$5,8 \approx c$$

d)



$$a=0; b=7$$

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

$$0^2 + 7^2 = c^2$$

$$0 + 49 = c^2$$

$$49 = c^2 \quad | \sqrt{}$$

$$7 = c$$