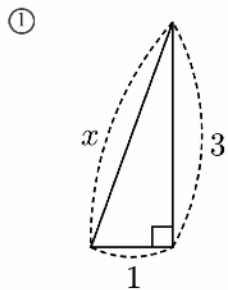


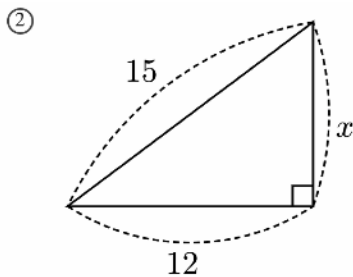
【中3数学 | 三平方の定理】

【1】 図のxを求めよ。



$$1^2 + 3^2 = x^2$$

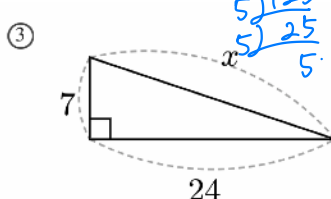
$$x = \sqrt{10}$$



$$12^2 + x^2 = 15^2$$

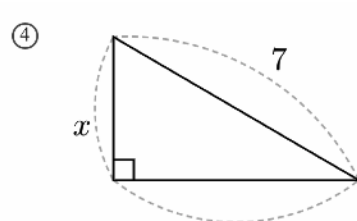
$$x^2 = 225 - 144$$

$$x = 9$$



$$7^2 + 24^2 = x^2$$

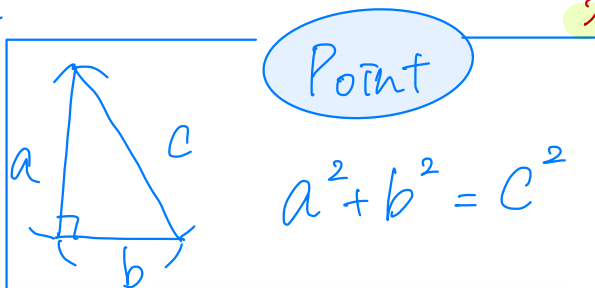
$$x = 25$$



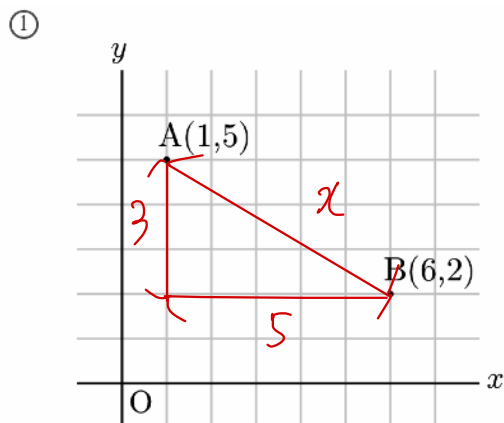
$$6^2 + x^2 = 7^2$$

$$x^2 = 13$$

$$x = \sqrt{13}$$

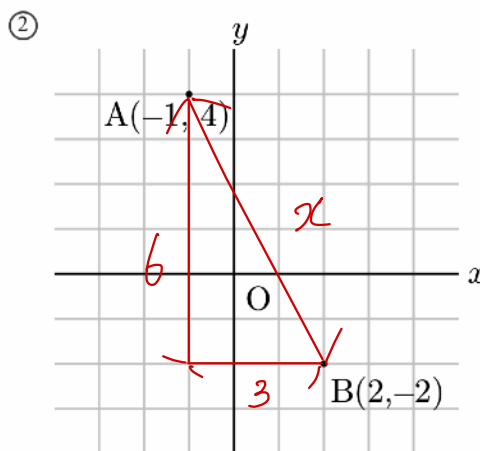


【2】 線分ABの長さを求めよ。



$$3^2 + 5^2 = x^2$$

$$x = \sqrt{34}$$

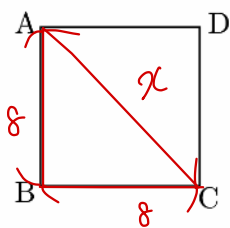


$$6^2 + 3^2 = x^2$$

$$x = 3\sqrt{5}$$

【3】 次の四角形の対角線の長さを求めよ。

① 1辺8cmの正方形

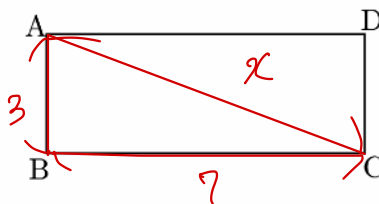


$$8^2 + 8^2 = x^2$$

$$x = 8\sqrt{2}$$

$$8\sqrt{2} \text{ cm}$$

② 縦3cm, 横7cmの長方形



$$3^2 + 7^2 = x^2$$

$$x = \sqrt{58}$$

$$\sqrt{58} \text{ cm}$$