

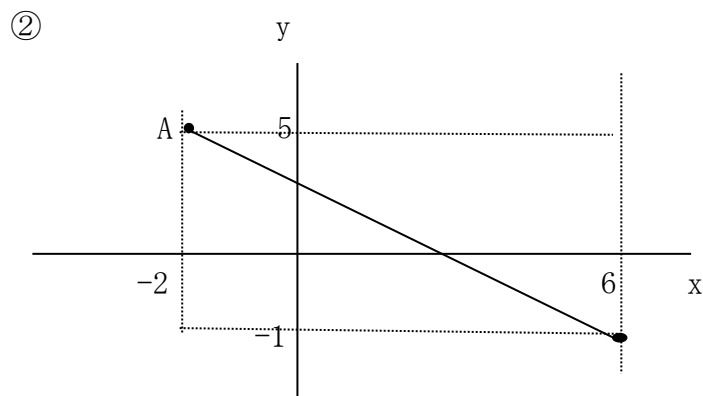
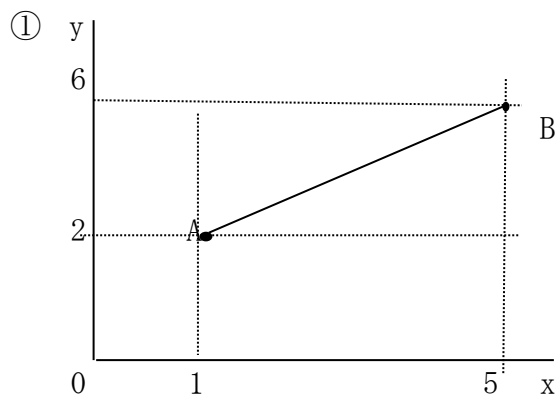
## 座標平面上の長さ 1

NO 2

名前

/6 点

1 2点間ABの座標の長さを求めなさい。



2 次の座標を持つ2点間の距離を求めなさい。

(1)  $A ( 2 , 4 ) , B ( 4 , 8 )$

(2)  $A ( 1 , 3 ) , B ( 4 , - 3 )$

(3)  $O ( 0 , 0 ) , A ( 8 , - 5 )$

(4)  $A ( - 2 , - 5 ) , B ( 3 , - 7 )$

解答

1

$$\begin{aligned} \textcircled{1} \quad AB^2 &= 4^2 + 4^2 = 32 \\ AB &= \sqrt{32} = 4\sqrt{2} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad AB^2 &= 8^2 + 6^2 = 100 \\ AB &= \sqrt{100} = 10 \end{aligned}$$

2

$$\begin{aligned} \text{(1)} \quad AB^2 &= 2^2 + 4^2 = 20 \\ AB &= \sqrt{20} = 2\sqrt{5} \end{aligned}$$

$$\begin{aligned} \text{(2)} \quad AB^2 &= 3^2 + 6^2 = 45 \\ AB &= \sqrt{45} = 3\sqrt{5} \end{aligned}$$

$$\begin{aligned} \text{(3)} \quad AB^2 &= 8^2 + 5^2 = 89 \\ AB &= \sqrt{89} \end{aligned}$$

$$\begin{aligned} \text{(4)} \quad AB^2 &= 5^2 + 2^2 = 29 \\ AB &= \sqrt{29} \end{aligned}$$