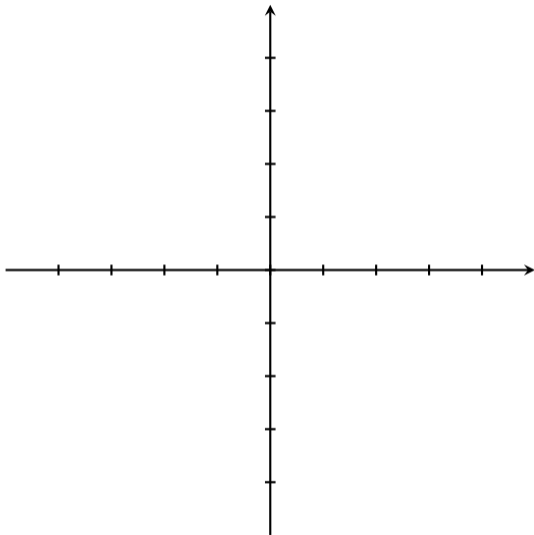
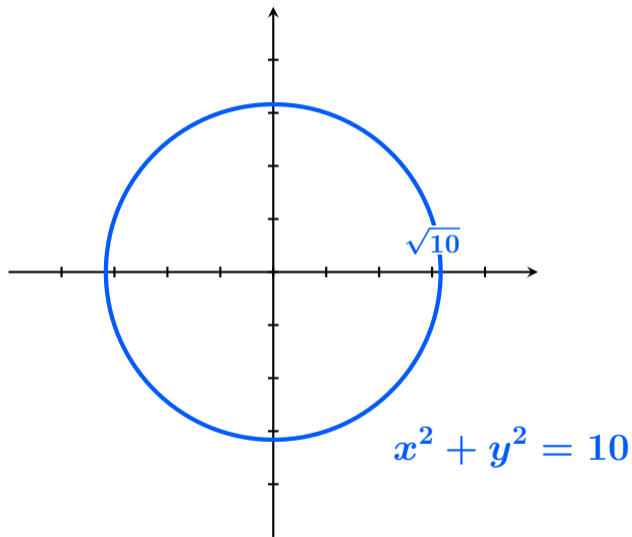


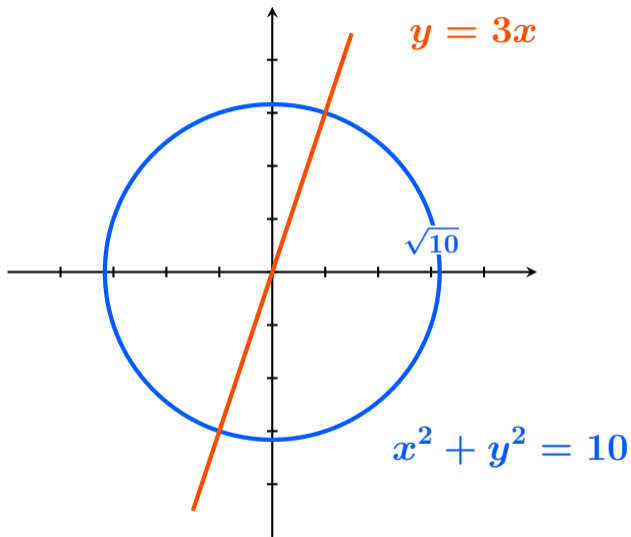
交点座標を求めなさい



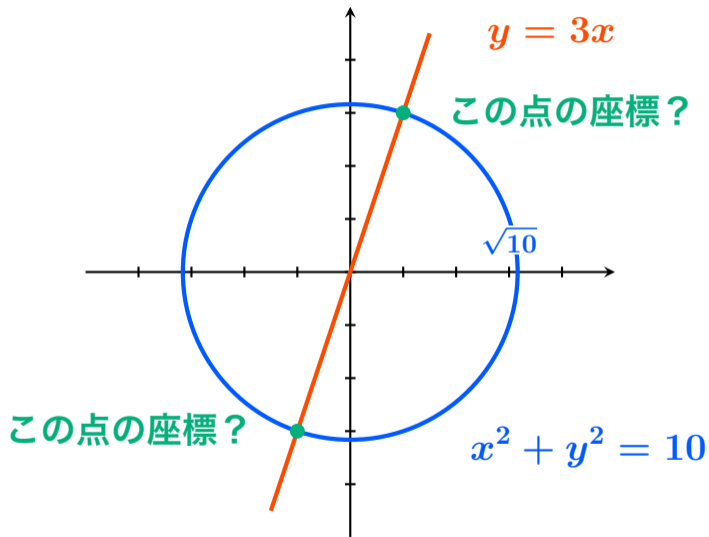
交点座標を求めなさい



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$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x \cdots \textcircled{2} \end{cases}$$

交点座標を求めなさい

$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = \boxed{3x} \cdots \textcircled{2} \end{cases}$$


②を①に代入

交点座標を求めなさい

$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = \boxed{3x} \cdots \textcircled{2} \end{cases}$$

②を①に代入

$$x^2 + (3x)^2 = 10$$

交点座標を求めなさい

$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = \boxed{3x} \cdots \textcircled{2} \end{cases}$$

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$$x^2 + (3x)^2 = 10$$

$$x^2 + 9x^2 = 10$$

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$$10x^2 = 10$$

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$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x \cdots \textcircled{2} \end{cases}$$

$$\sqrt{x^2} = \pm \sqrt{1}$$

②を①に代入

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(ii) $x = -1$ のとき

(i) $x = 1$ のとき

交点座標を求めなさい

$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x \cdots \textcircled{2} \end{cases} \quad \begin{aligned} \sqrt{x^2} &= \pm \sqrt{1} \\ x &= \pm 1 \end{aligned}$$

(ii) $x = -1$ のとき (i) $x = 1$ のとき

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(ii) $x = -1$ のとき

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$$y = 3 \times 1$$

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答 $(1, 3), (-1, -3)$

交点座標を求めなさい

