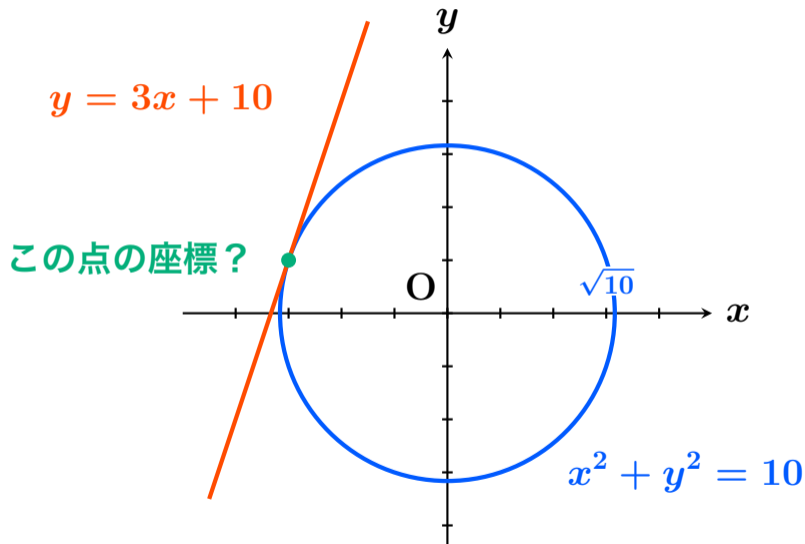


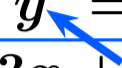
# 交点座標を求めなさい



## 交点座標を求めなさい

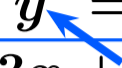
$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x + 10 \cdots \textcircled{2} \end{cases}$$

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


②を①に代入

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


②を①に代入

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

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

②を①に代入

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

$$x^2 + 9x^2 + 60x + 100 = 10$$

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

②を①に代入

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

$$x^2 + 9x^2 + 60x + 100 = 10$$

$$10x^2 + 60x + 90 = 0$$

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

②を①に代入

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

$$x^2 + 9x^2 + 60x + 100 = 10$$

$$10x^2 + 60x + 90 = 0$$

$$x^2 + 6x + 9 = 0$$

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$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} & (x + 3)^2 = 0 \\ y = 3x + 10 \cdots \textcircled{2} \end{cases}$$

②を①に代入

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

$$x^2 + 9x^2 + 60x + 100 = 10$$

$$10x^2 + 60x + 90 = 0$$

$$x^2 + 6x + 9 = 0$$



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$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x + 10 \cdots \textcircled{2} \end{cases} \quad \begin{cases} (x + 3)^2 = 0 \\ x + 3 = 0 \end{cases}$$

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

$$(x + 3)^2 = 0$$

$$x + 3 = 0$$


$$x = -3$$

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

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$$x = -3$$


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$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x + 10 \cdots \textcircled{2} \end{cases} \quad \begin{cases} (x + 3)^2 = 0 \\ x + 3 = 0 \end{cases}$$

$$x = -3$$

$$y = 3 \times (-3) + 10$$

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$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x + 10 \cdots \textcircled{2} \end{cases} \quad \begin{cases} (x + 3)^2 = 0 \\ x + 3 = 0 \end{cases}$$

$$x = -3$$

$$y = 3 \times (-3) + 10$$

$$y = 1$$

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$$\begin{cases} x^2 + y^2 = 10 \cdots \textcircled{1} \\ y = 3x + 10 \cdots \textcircled{2} \end{cases} \quad \begin{cases} (x + 3)^2 = 0 \\ x + 3 = 0 \end{cases}$$

$$x = -3$$

$$y = 3 \times (-3) + 10$$

$$y = 1$$

答  $(-3, 1)$

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