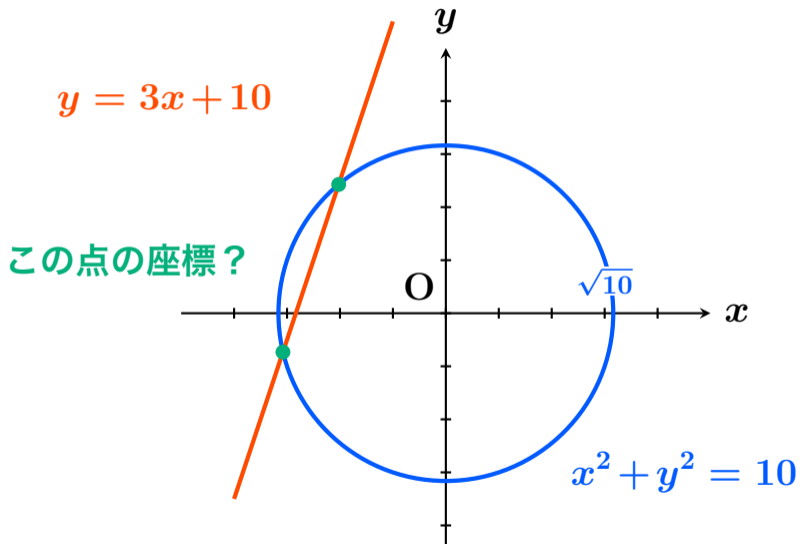



交点座標を求めなさい #25 例 2



交点座標を求めなさい

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

交点座標を求めなさい

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


②を①に代入

交点座標を求めなさい

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

②を①に代入

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

交点座標を求めなさい

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

②を①に代入

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

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

交点座標を求めなさい

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

②を①に代入

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

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

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

交点座標を求めなさい

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

②を①に代入

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

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

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

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

交点座標を求めなさい

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

②を①に代入

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

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

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

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

交点座標を求めなさい

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

$$\begin{cases} (x + 3)^2 = 0 \\ x + 3 = 0 \end{cases}$$

交点座標を求めなさい

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

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

$$x + 3 = 0$$


$$x = -3$$

交点座標を求めなさい

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

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

$$x + 3 = 0$$

$$x = -3$$


交点座標を求めなさい

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

$$x = -3$$

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

交点座標を求めなさい

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

$$x = -3$$

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

$$y = 1$$

交点座標を求めなさい

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

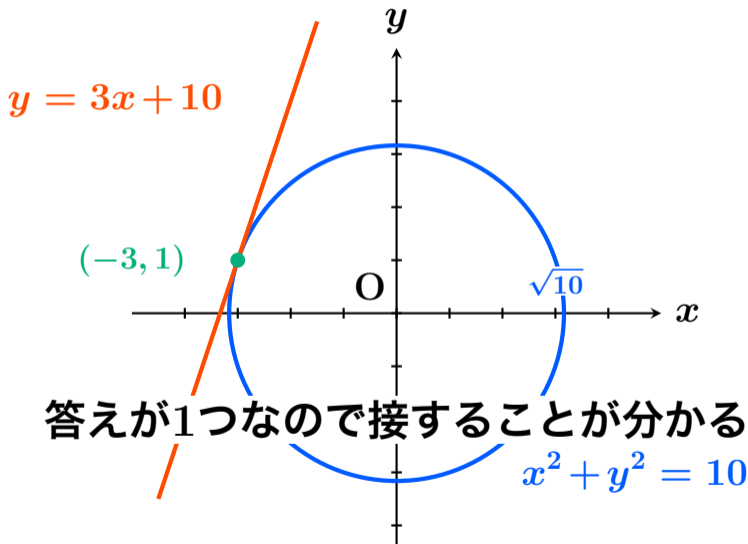
$$x = -3$$

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

$$y = 1$$

答 $(-3, 1)$

交点座標を求めなさい



答えが1つなので接することが分かる

$$x^2 + y^2 = 10$$