

Find the equation for the tangent line to $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ at a given point (x_1, y_1)

$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ 상의 점 (x_1, y_1) 에서의 접선의
방정식을 구하여라.

(Find the equation for the tangent line to $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ at a given
point (x_1, y_1))

Find the equation for the tangent line to $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ at a given point (x_1, y_1)

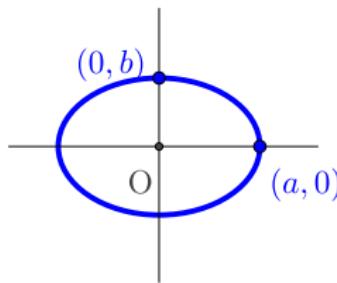
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Find the equation for the tangent line to $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ at a given point (x_1, y_1)

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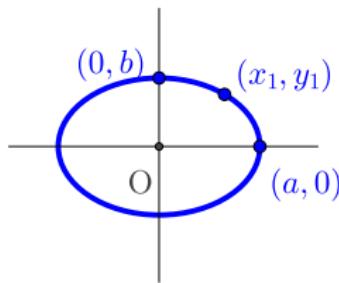


$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

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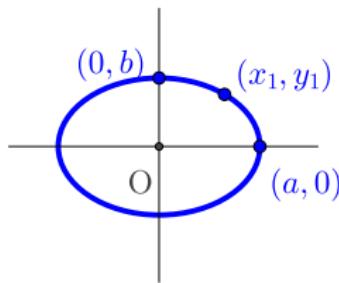
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(x_1, y_1)

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$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

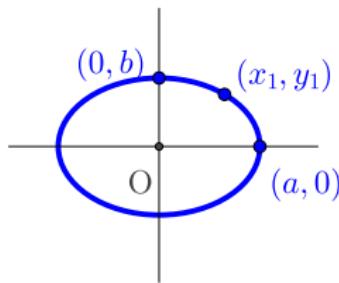
(x_1, y_1)

$$\frac{(ax)^2}{a^2} + \frac{(by)^2}{b^2} = 1$$

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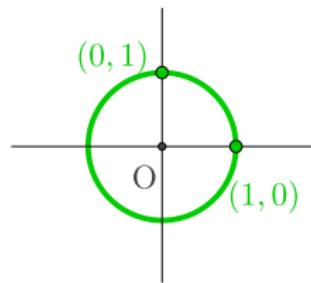
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$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

(x_1, y_1)

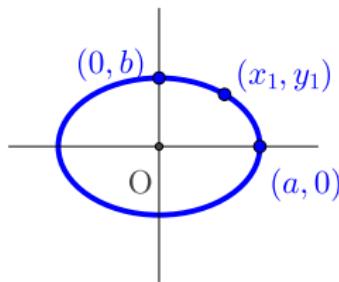


$$x^2 + y^2 = 1$$

Find the equation for the tangent line to $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ at a given point (x_1, y_1)

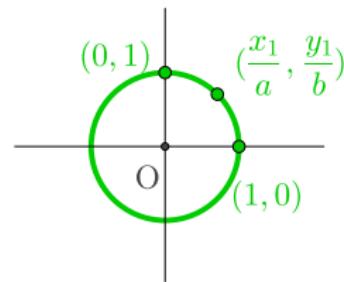
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$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

(x_1, y_1)



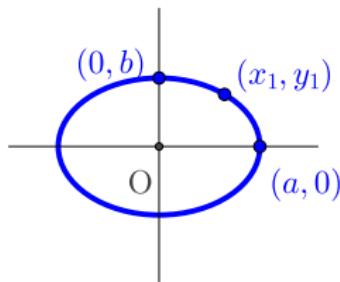
$$x^2 + y^2 = 1$$

$(\frac{x_1}{a}, \frac{y_1}{b})$

Find the equation for the tangent line to $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ at a given point (x_1, y_1)

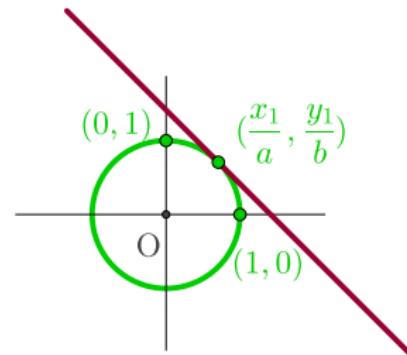
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$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

(x_1, y_1)



$$x^2 + y^2 = 1$$

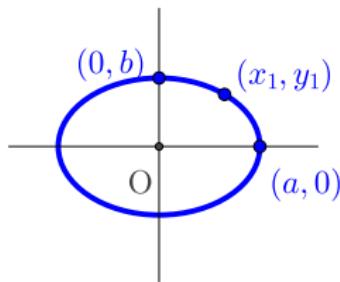
$(\frac{x_1}{a}, \frac{y_1}{b})$

$$\frac{x_1}{a}x + \frac{y_1}{b}y = 1$$

Find the equation for the tangent line to $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ at a given point (x_1, y_1)

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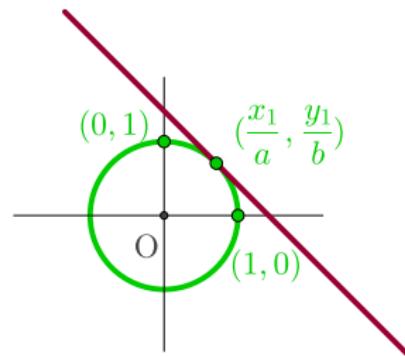
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$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

(x_1, y_1)

$$\frac{x_1}{a} \cdot \frac{x}{a} + \frac{y_1}{b} \cdot \frac{y}{b} = 1$$



$$x^2 + y^2 = 1$$

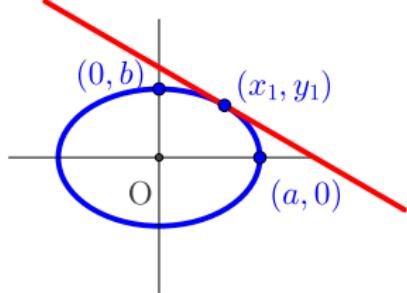
$(\frac{x_1}{a}, \frac{y_1}{b})$

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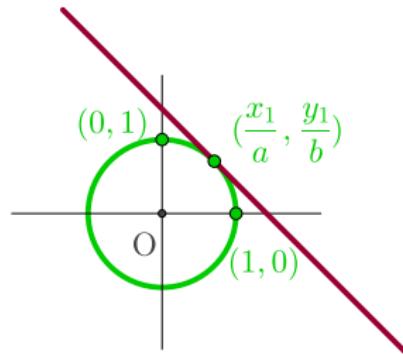
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$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

(x_1, y_1)

$$\frac{x_1 x}{a^2} + \frac{y_1 y}{b^2} = 1$$



$$x^2 + y^2 = 1$$

$(\frac{x_1}{a}, \frac{y_1}{b})$

$$\frac{x_1}{a} x + \frac{y_1}{b} y = 1$$

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Github:

<https://min7014.github.io/math20220510001.html>

Click or paste URL into the URL search bar,
and you can see a picture moving.