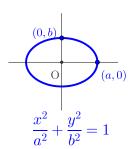
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
 의 기울기가 m 인 접선의 방정식을 구하여라.

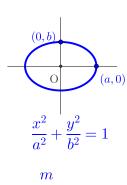
(Find the equation for the tangent line having slope m to

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

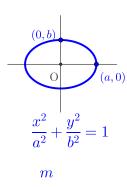




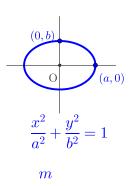


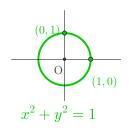


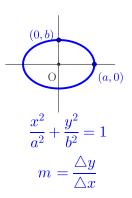


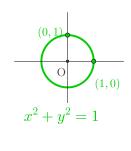


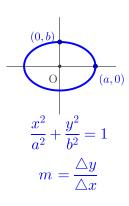
$$\frac{(ax)^2}{a^2} + \frac{(by)^2}{b^2} = 1$$

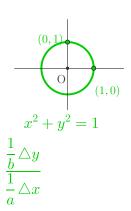




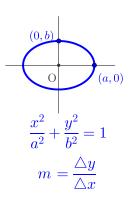


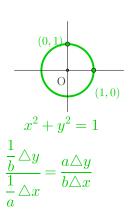


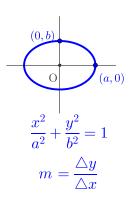


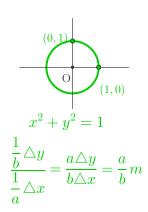


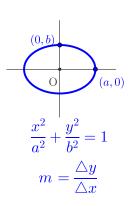


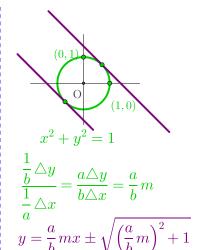




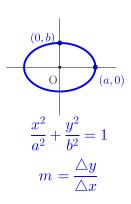




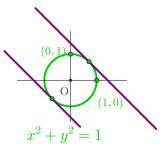




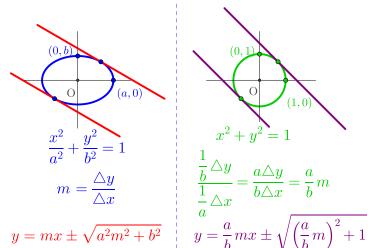
▶ Start ► End

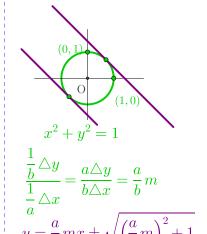


$$\frac{y}{b} = \frac{a}{b} m \frac{x}{a} \pm \sqrt{\left(\frac{a}{b} m\right)^2 + 1}$$



$$\frac{\frac{1}{b}\triangle y}{\frac{1}{a}\triangle x} = \frac{a\triangle y}{b\triangle x} = \frac{a}{b}m$$
$$y = \frac{a}{b}mx \pm \sqrt{\left(\frac{a}{b}m\right)^2 + 1}$$





Github:

https://min7014.github.io/math20220511001.html

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