Find the equation of the ellipse where the sum of the distances from $\mathrm{F}(0, -c)$ and $\mathrm{F}'(0, -c)$ is $2b$.

두 초점 $\mathrm{F}(0, c)$ 이고 $\mathrm{F}'(0, -c)$ 으로부터 거리의 합이 $2b$인 타원의 방정식을 구하여라.

(Find the equation of the ellipse where the sum of the distances from $\mathrm{F}(0, -c)$ and $\mathrm{F}'(0, -c)$ is $2b$.)

Find the equation of the ellipse where the sum of the distances from $\mathrm{F}(0, -c)$ and $\mathrm{F}'(0, -c)$ is $2b$.

Start End

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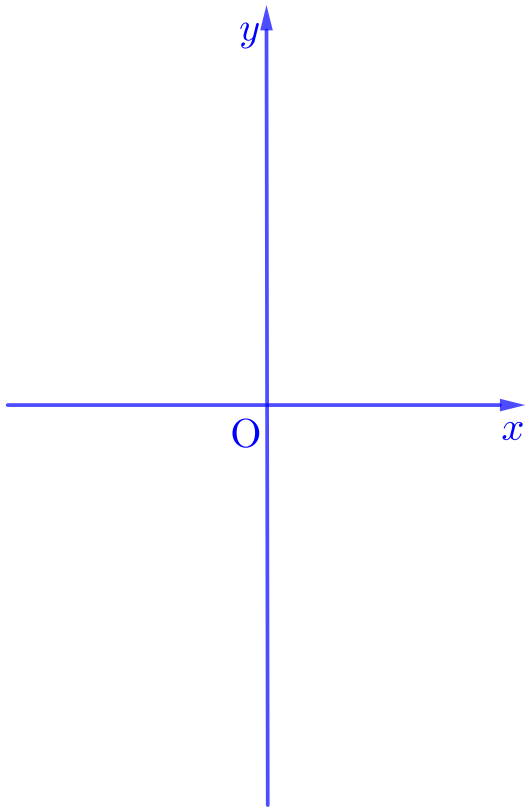
Start End



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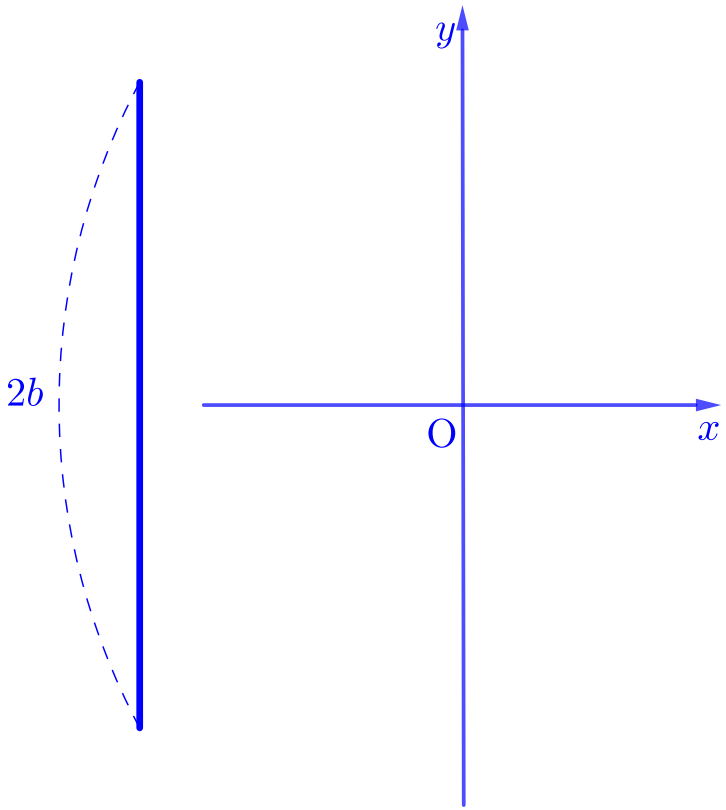

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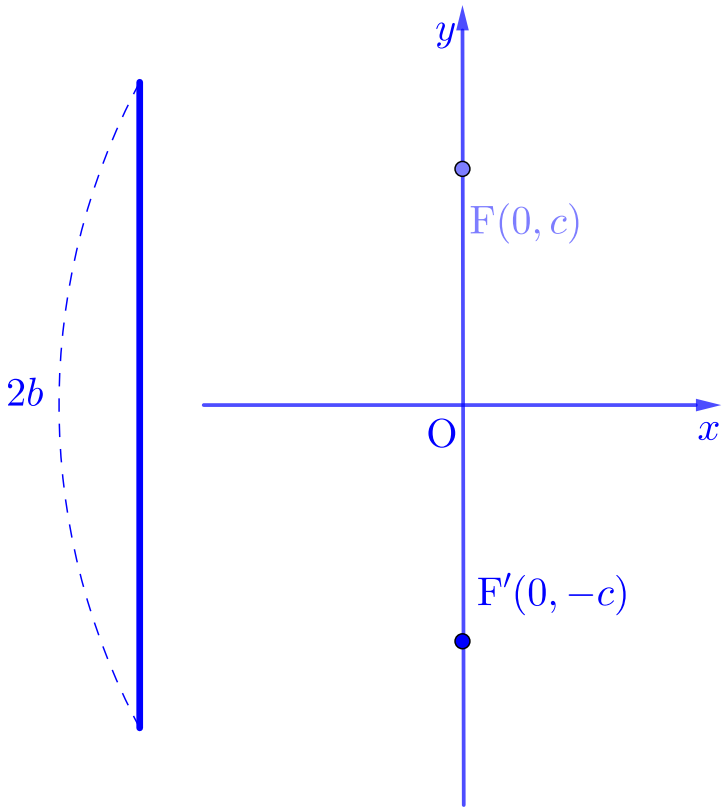

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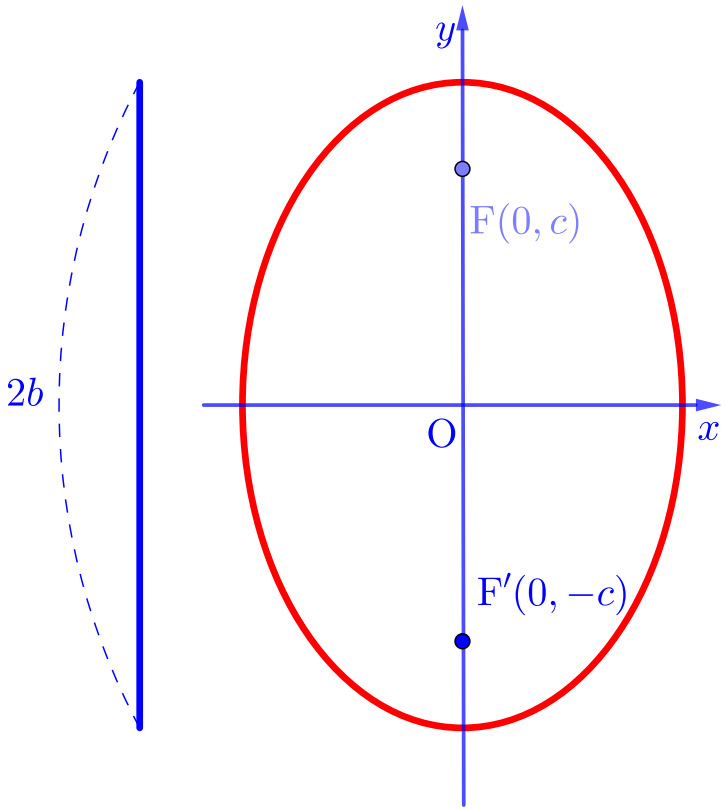

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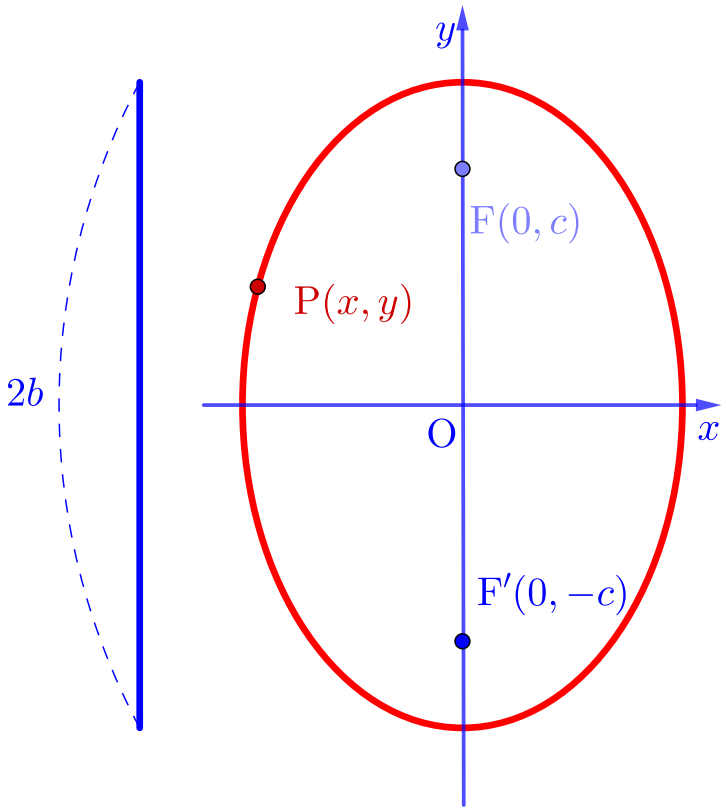

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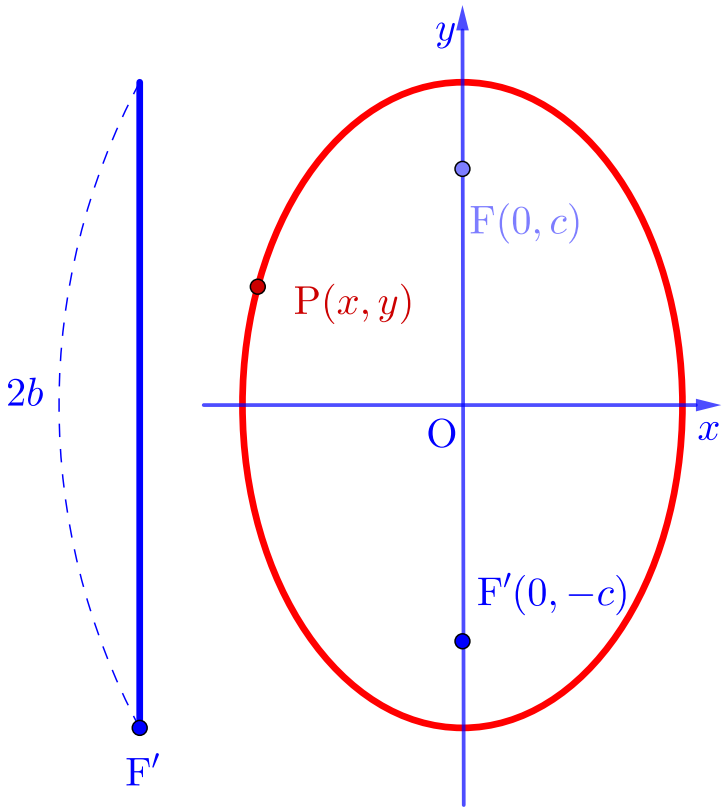

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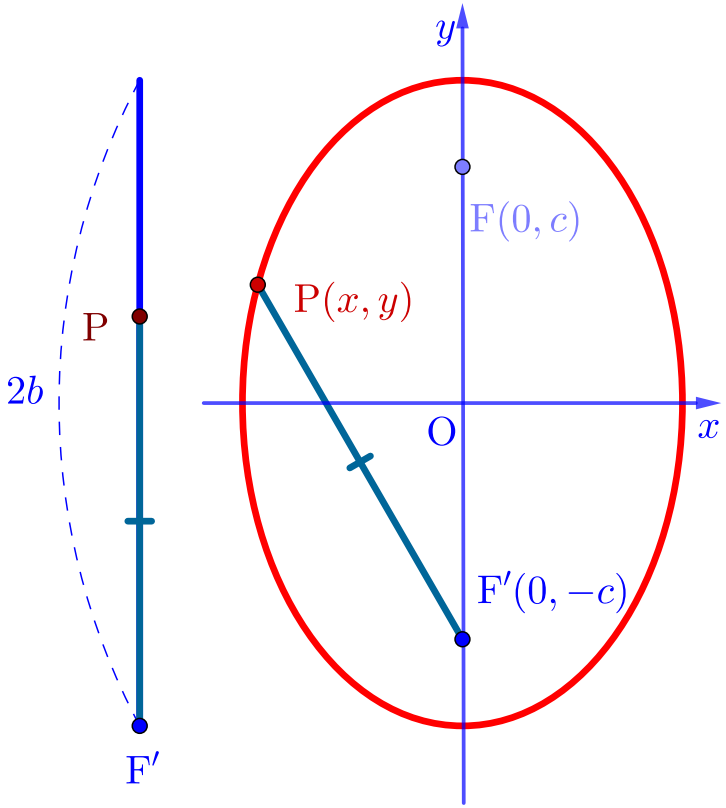

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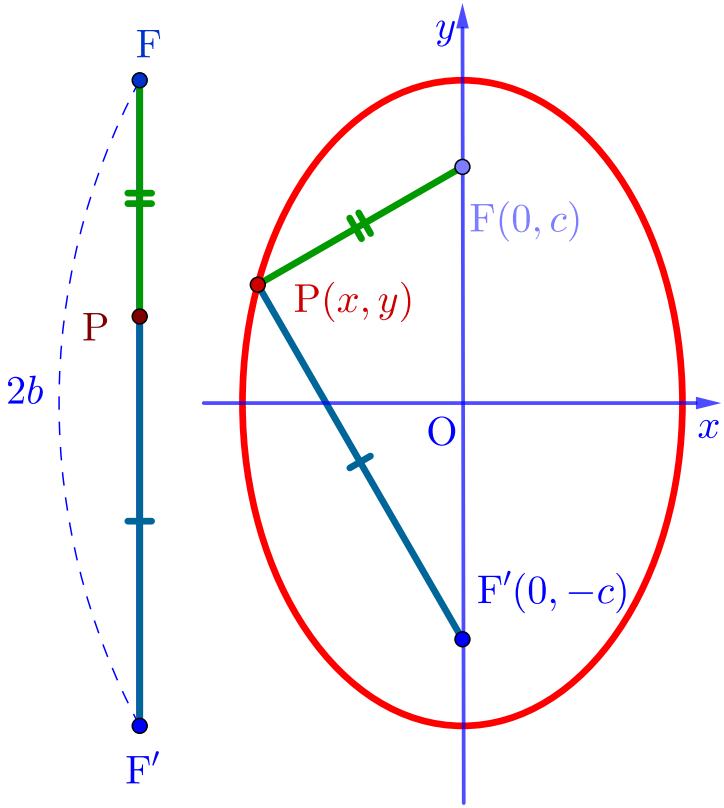

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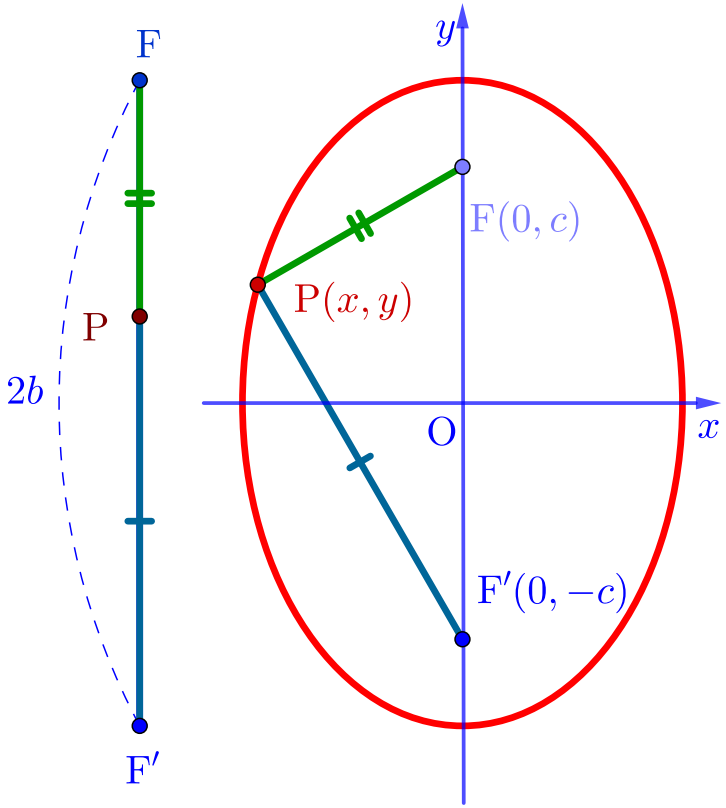

$\overline{\mathrm{PF}} + \overline{\mathrm{PF}'} = 2b$

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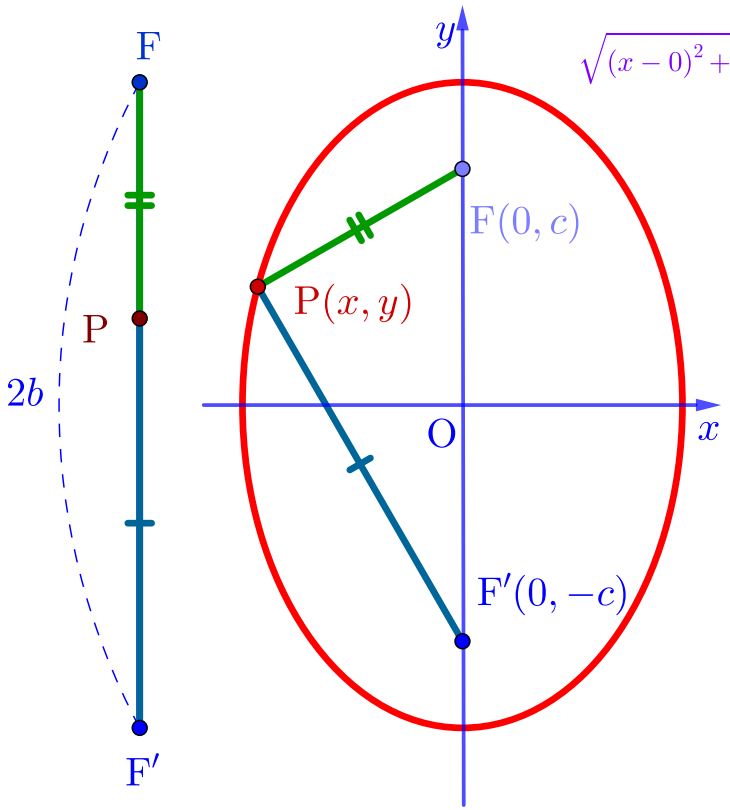

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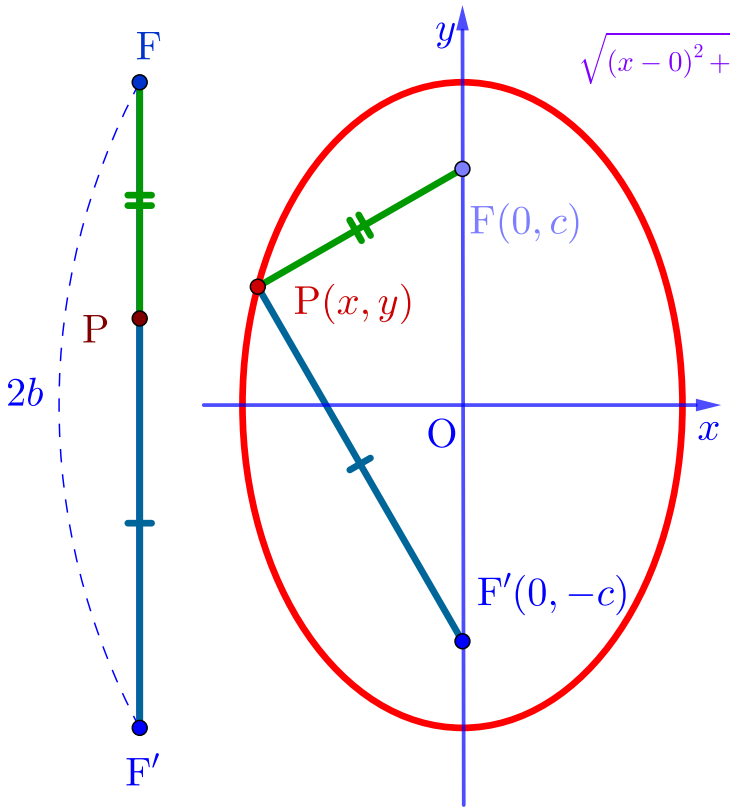

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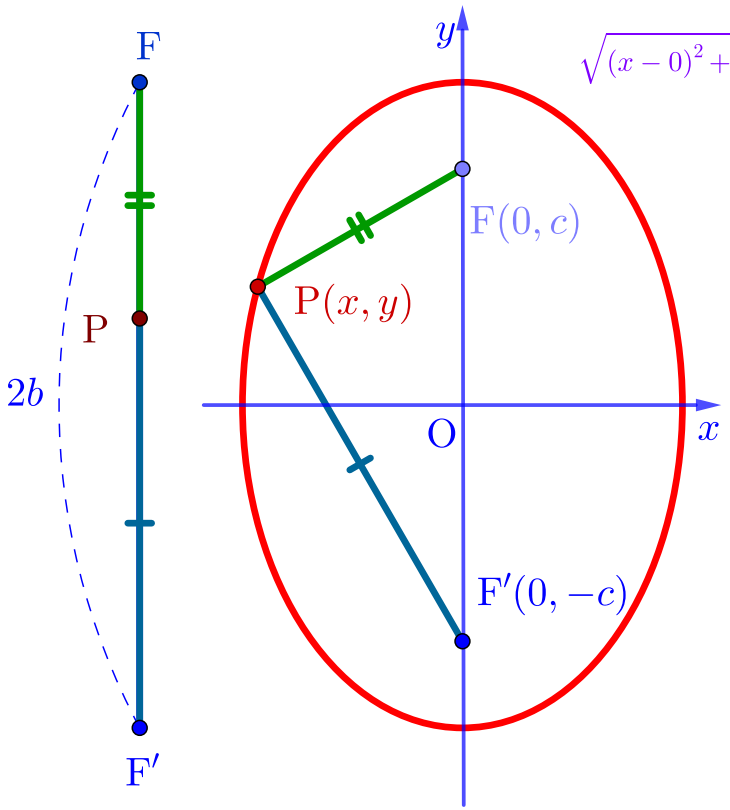

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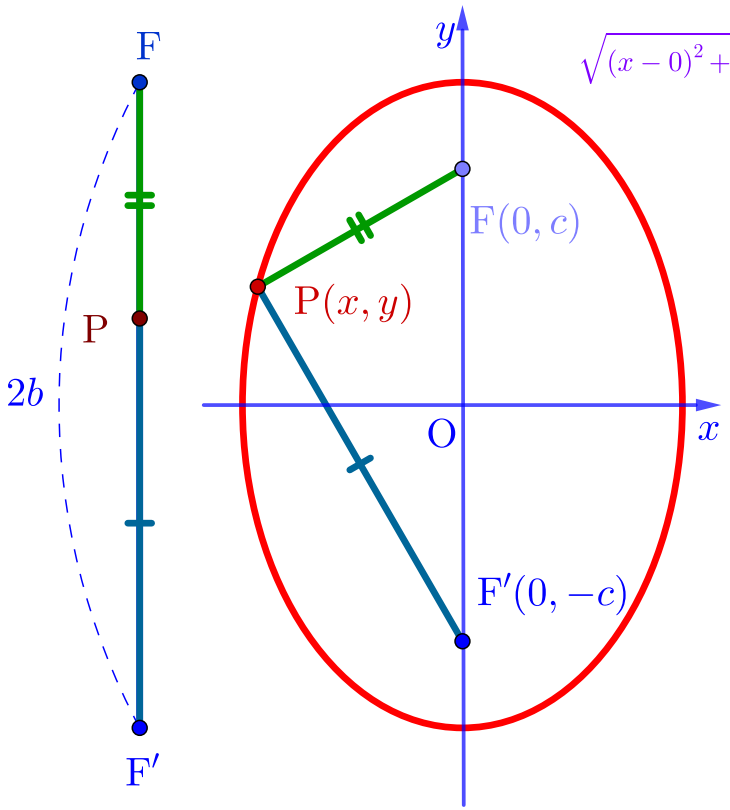

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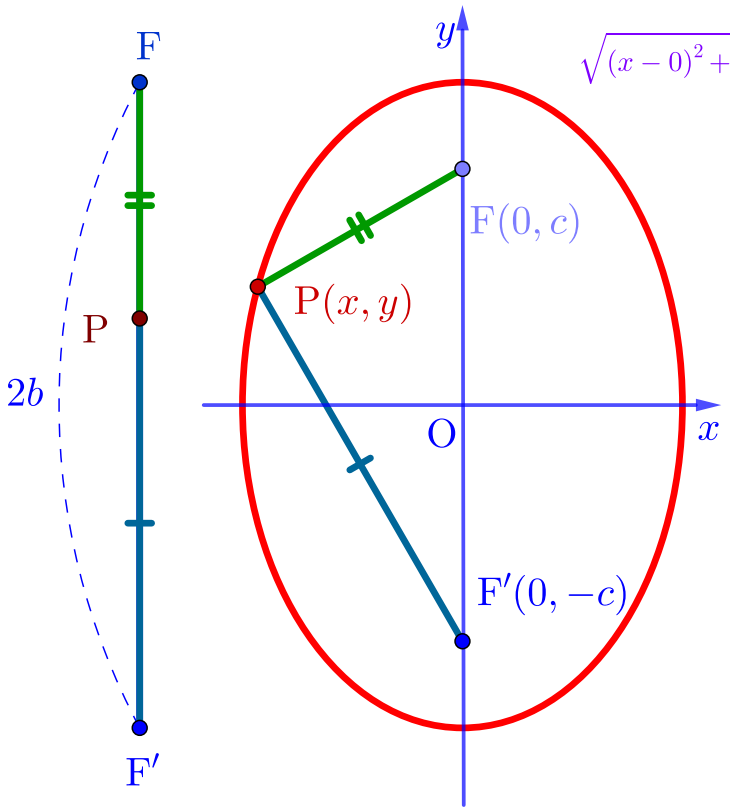

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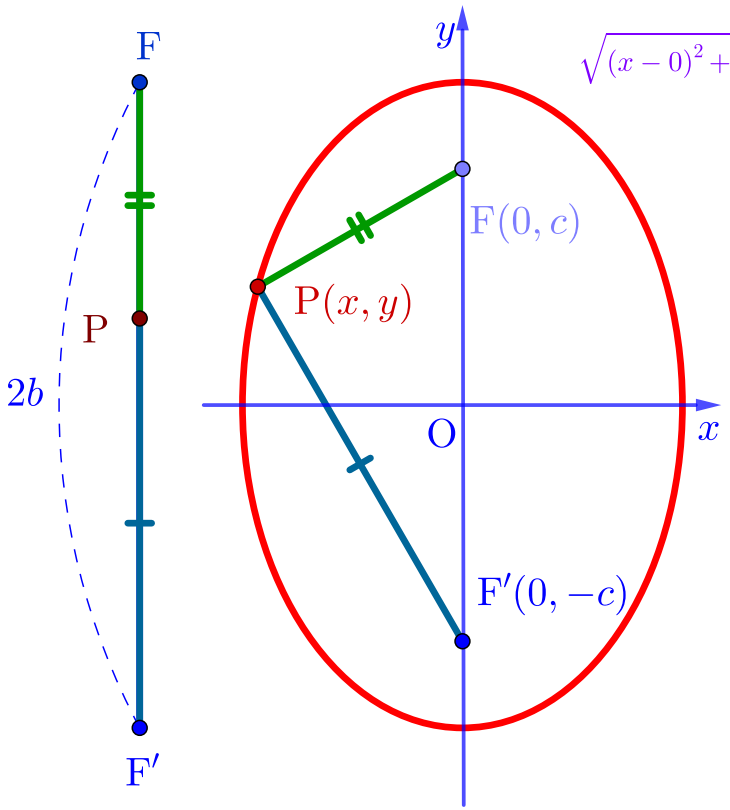

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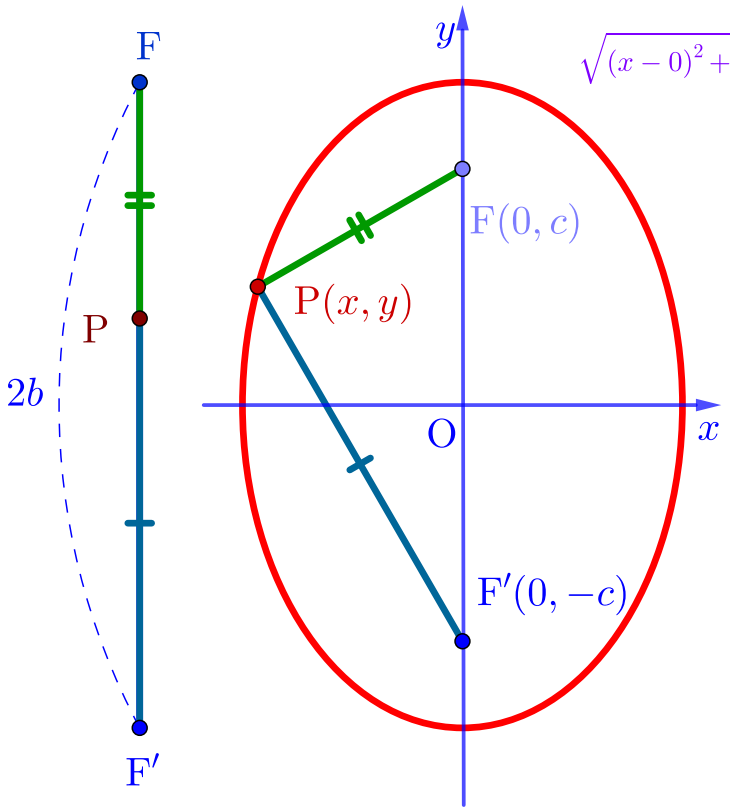

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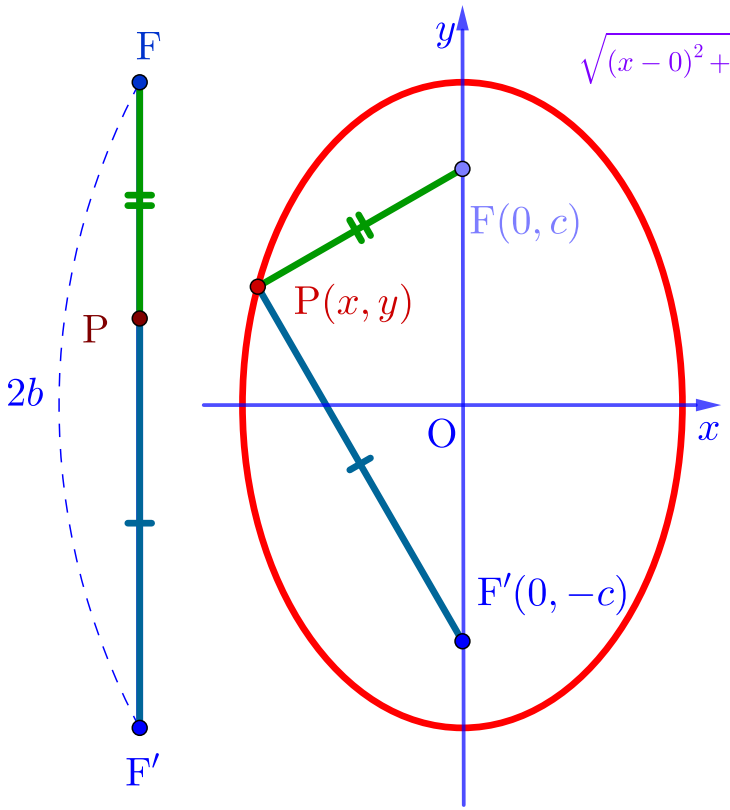

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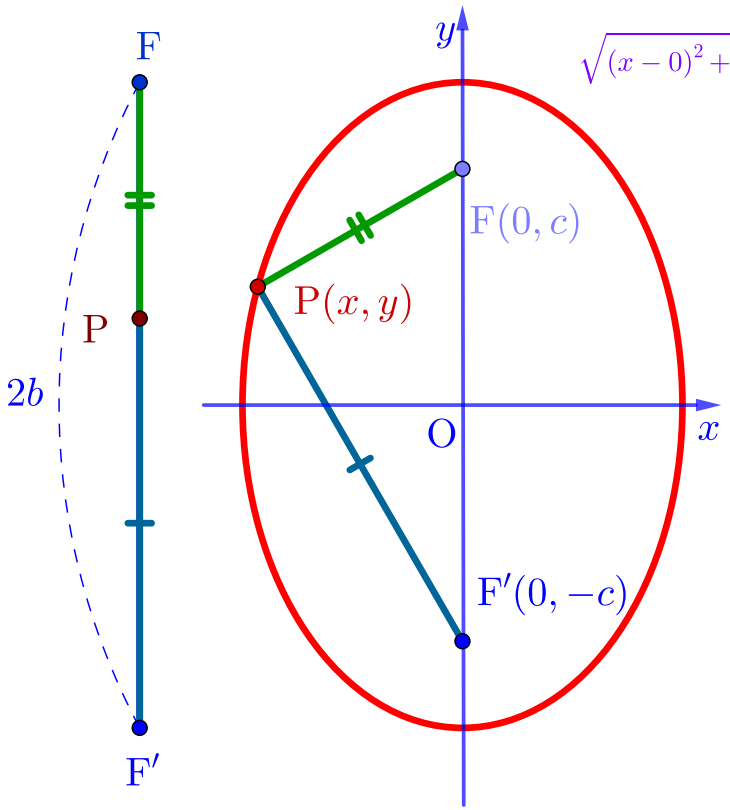

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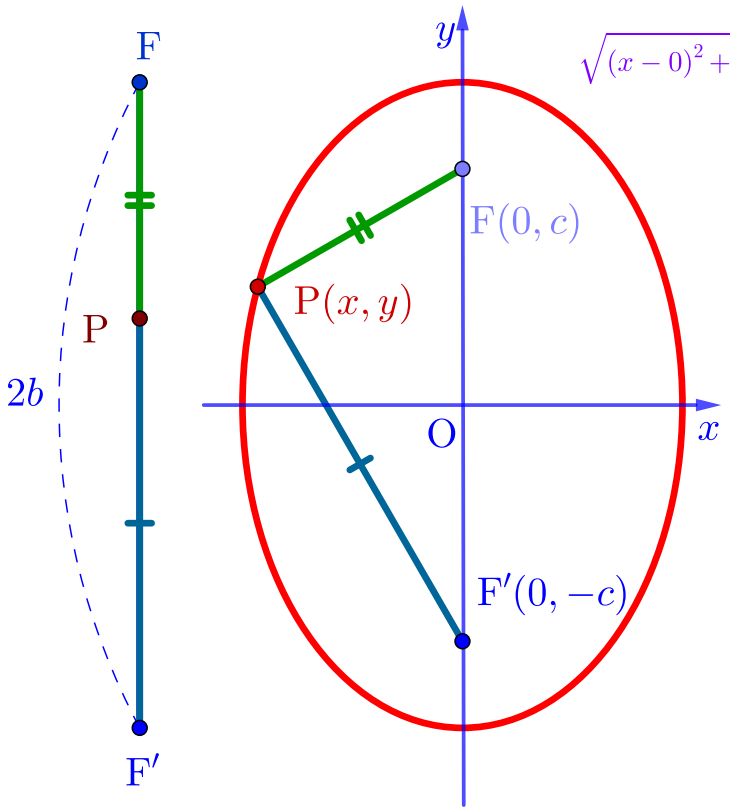

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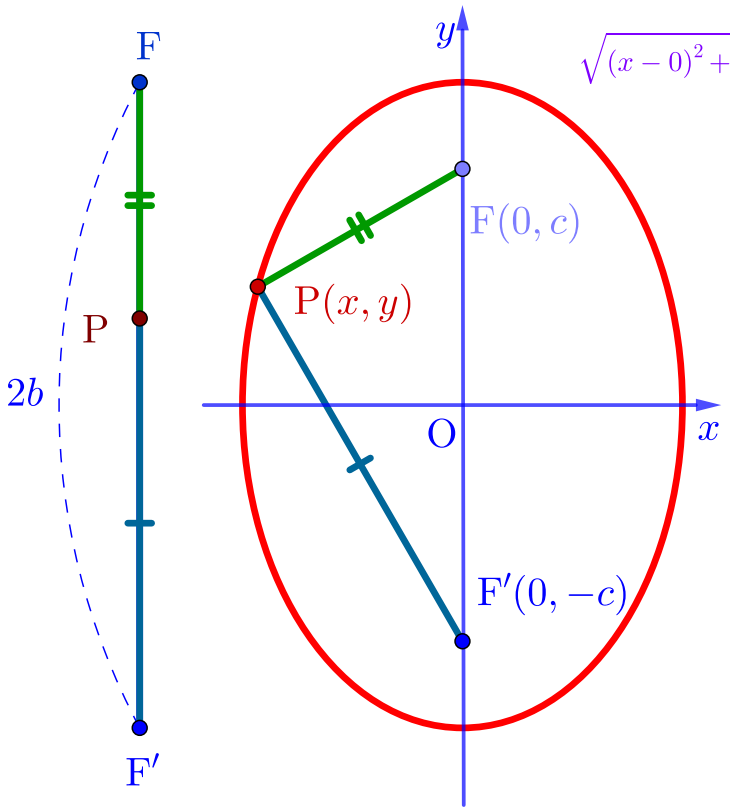

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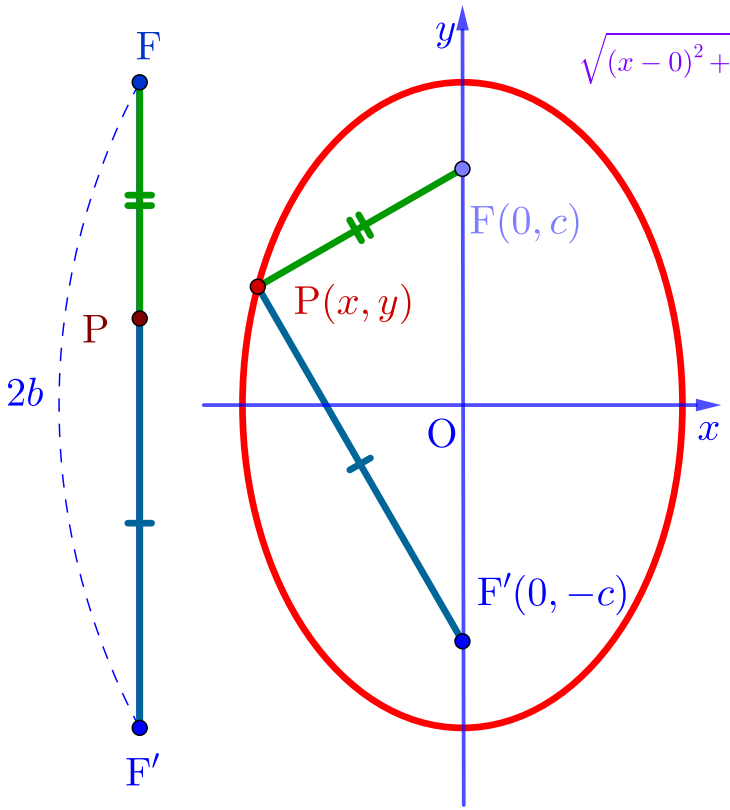

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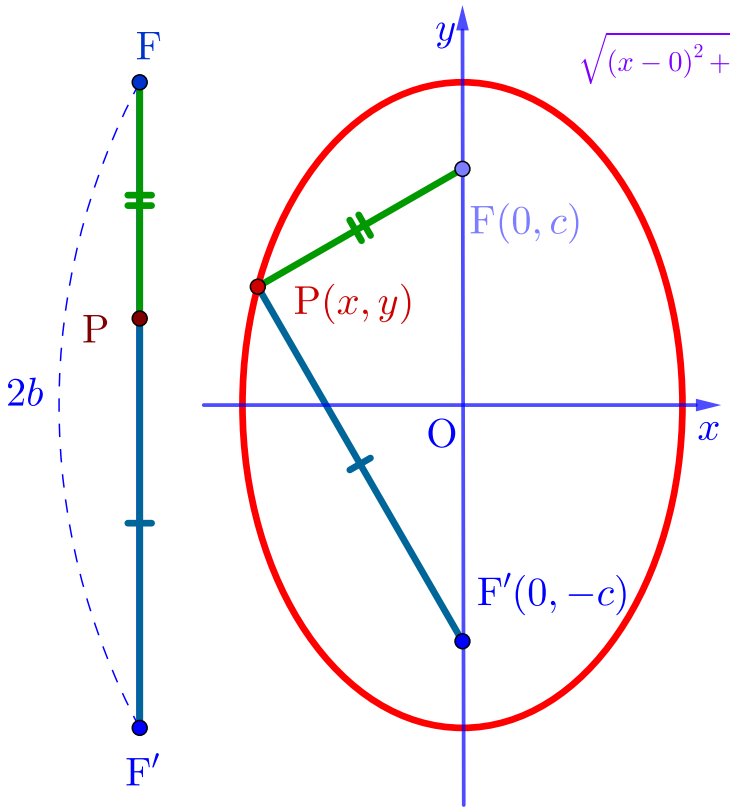

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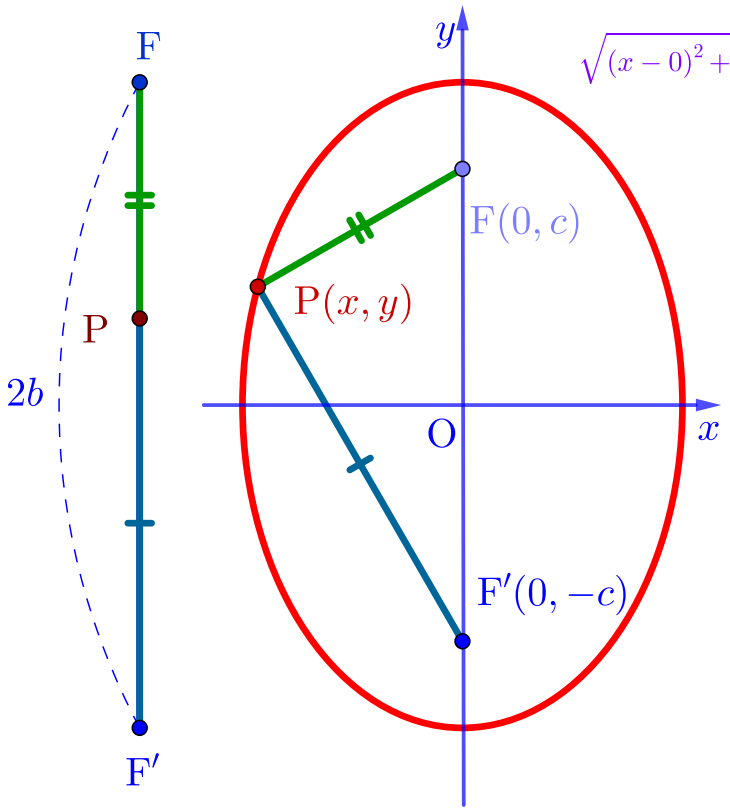

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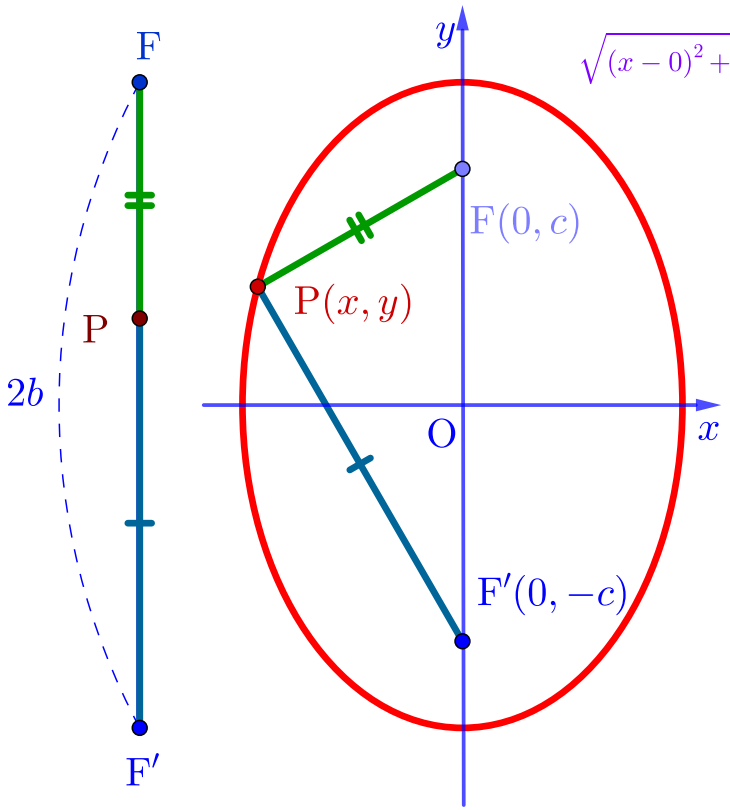
Let $a^2 = b^2 - c^2$

Find the equation of the ellipse where the sum of the distances from $\mathrm{F}(0, -c)$ and $\mathrm{F}'(0, -c)$ is $2b$.

Start End



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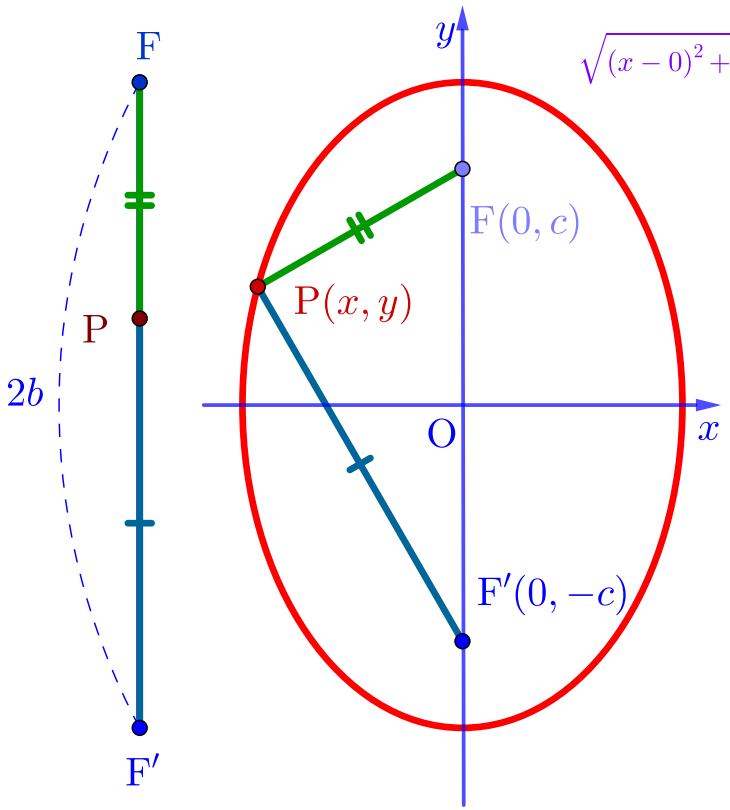
Start End



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

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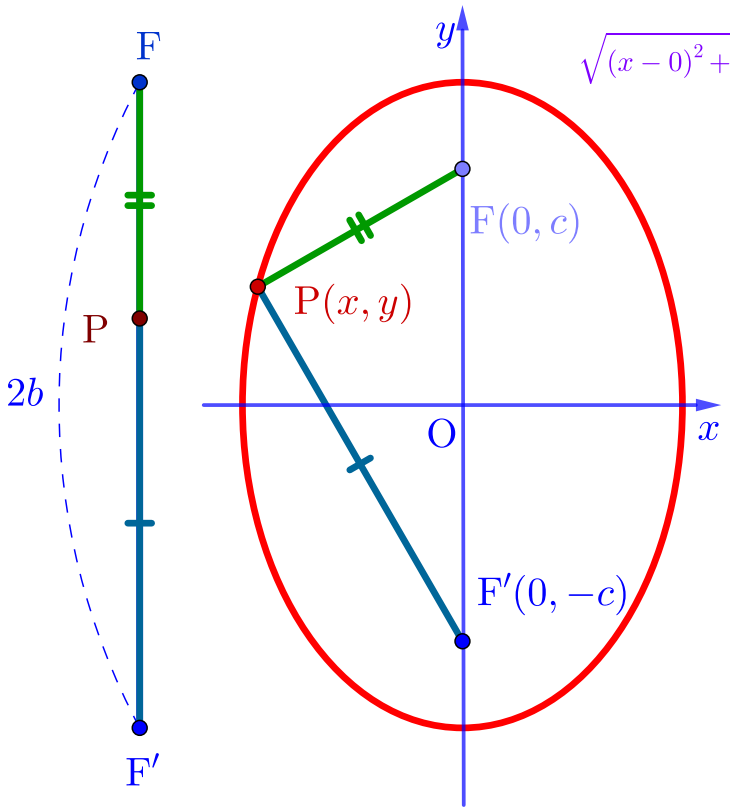
Start End



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$$\therefore \frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \quad (b > c > 0,\ a^2 = b^2 - c^2)$$

Find the equation of the ellipse where the sum of the distances from $\mathrm{F}(0, -c)$ and $\mathrm{F}'(0, -c)$ is $2b$.

Github:
https://min7014.github.io/math20200423001.html

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