준선이 $y = -p$ 이고 초점이 $(0, p)$ 일 때,
포물선의 방정식을 구하여라.
(hen a directrix is $y = -p$ and a focus is $(0, p)$, find the equation of the parabola.)

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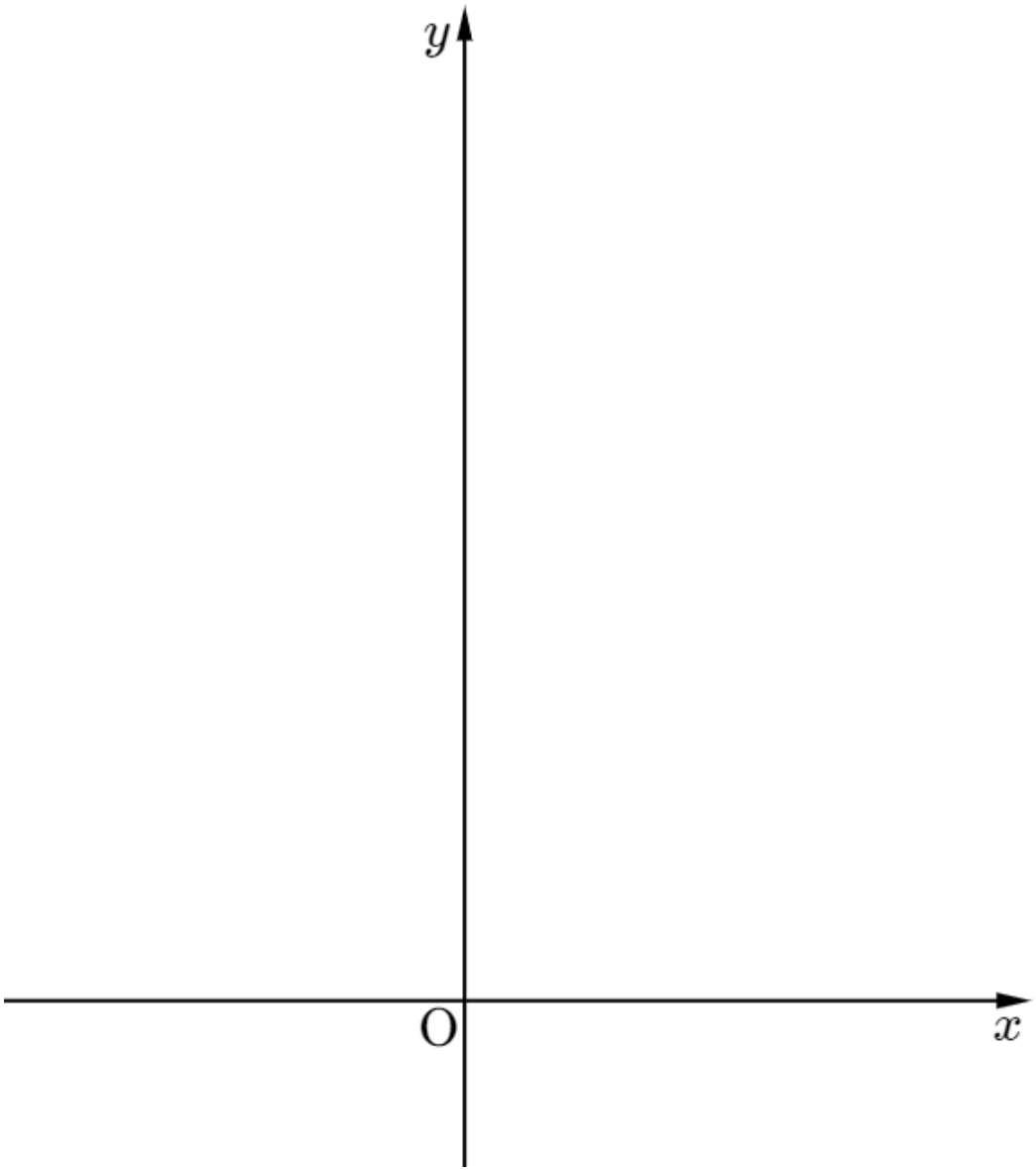

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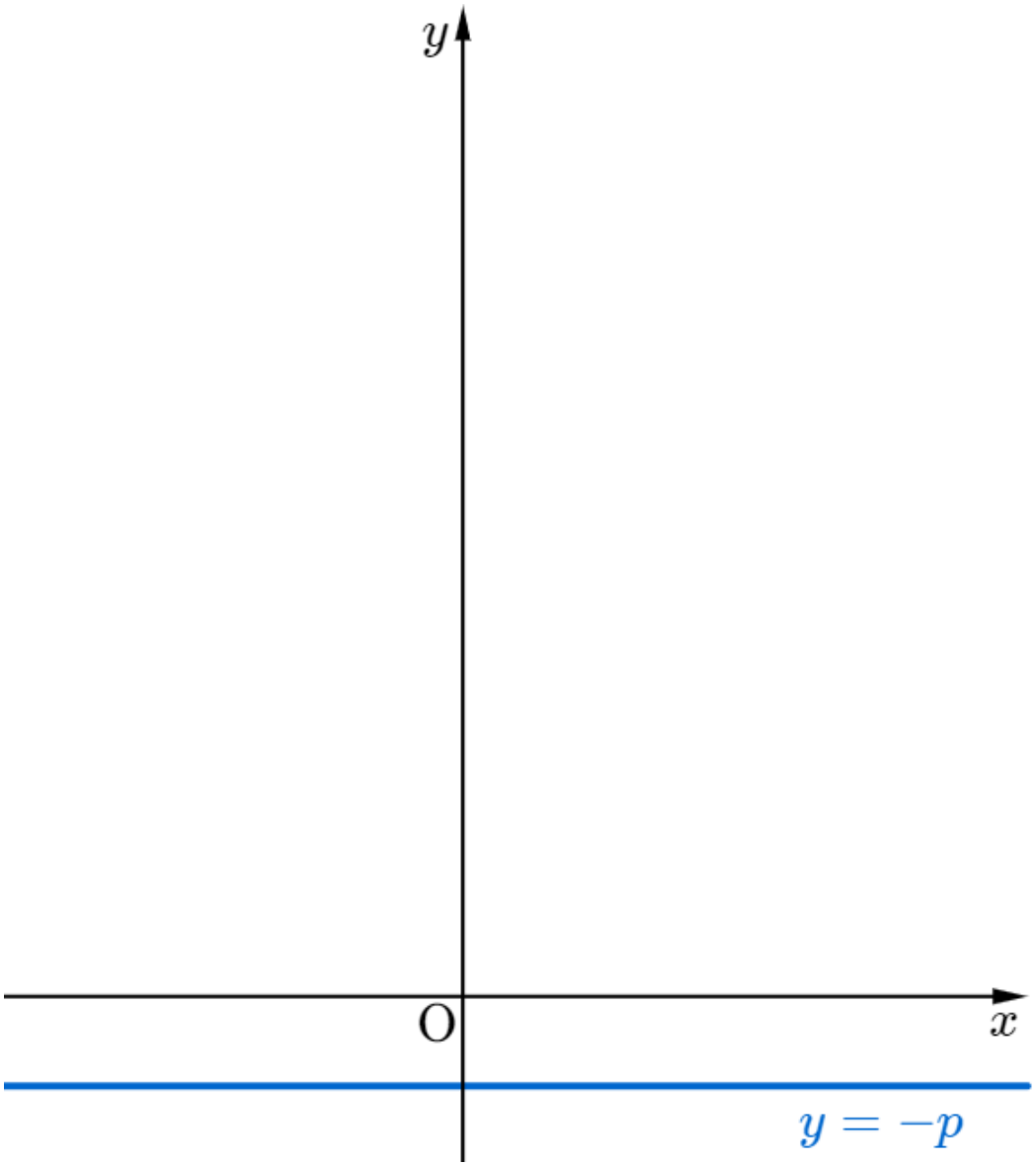

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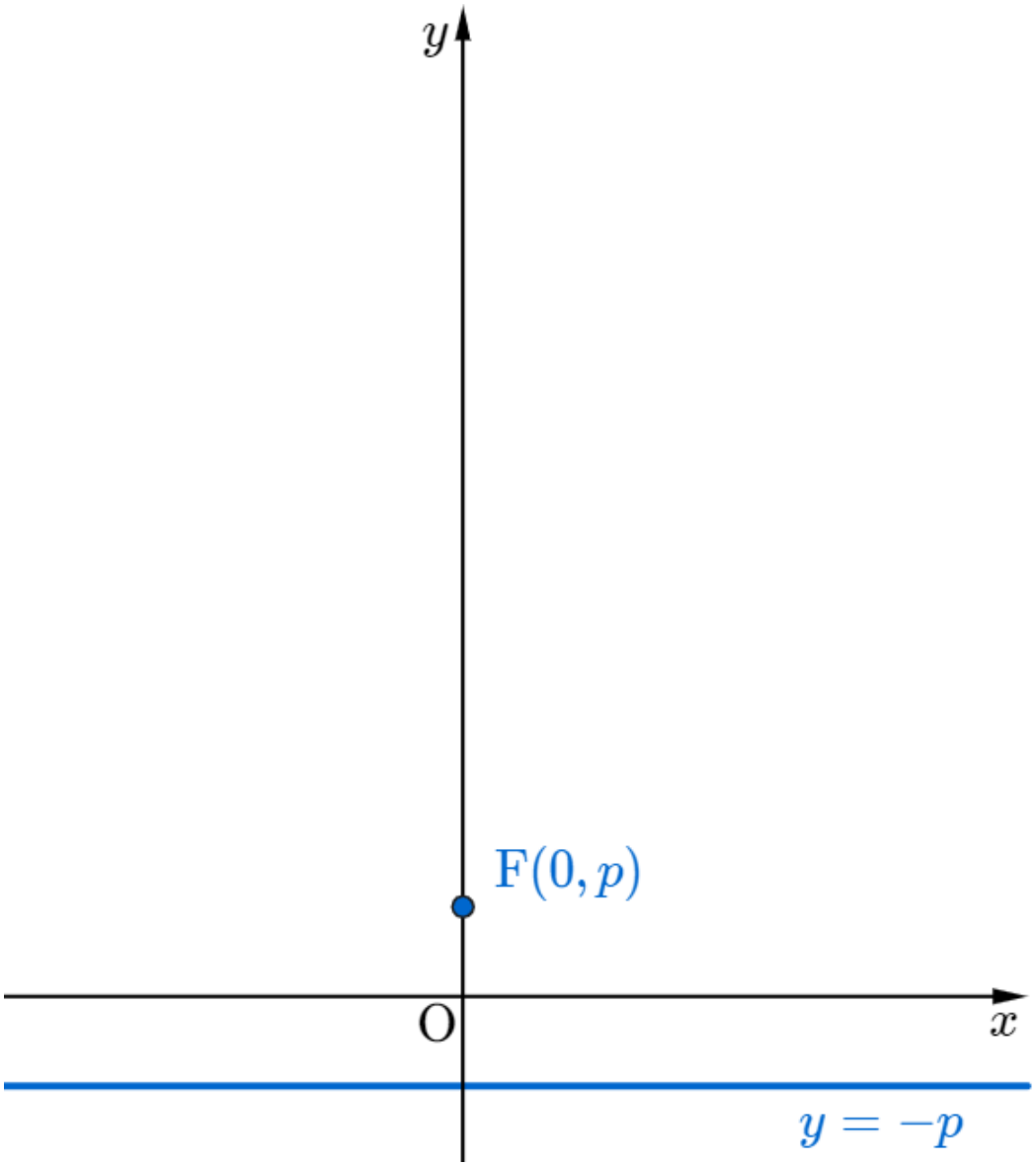

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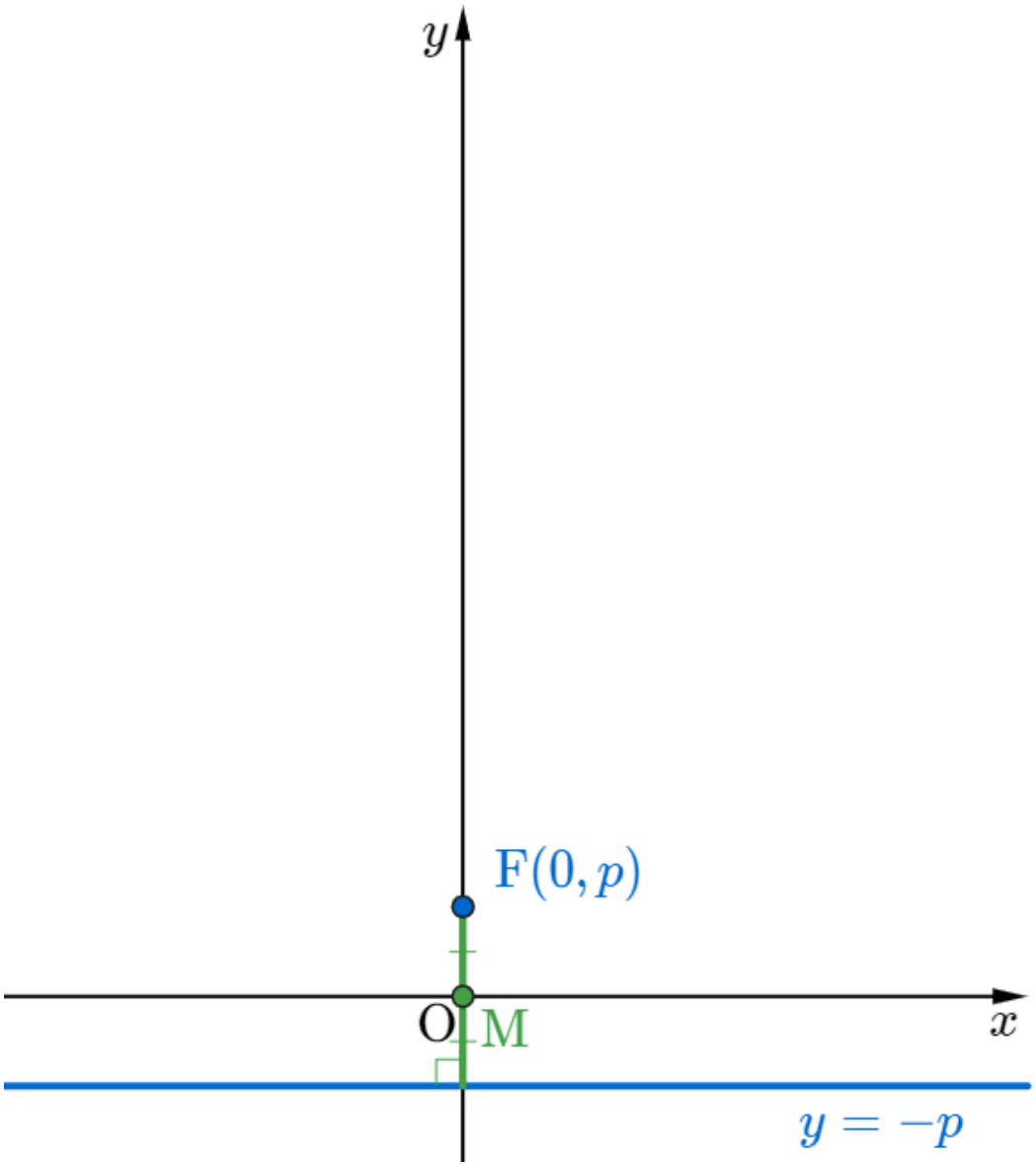

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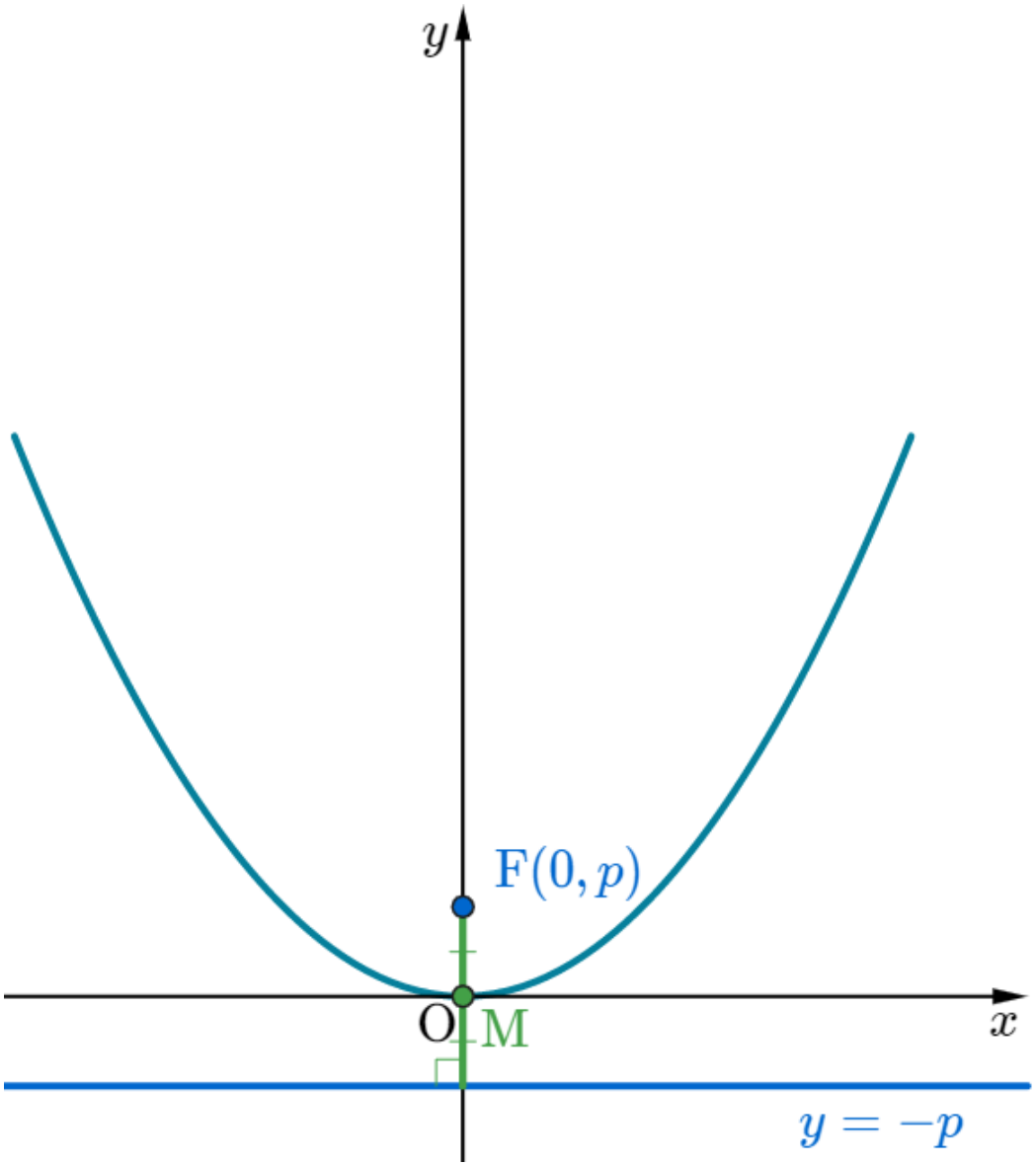

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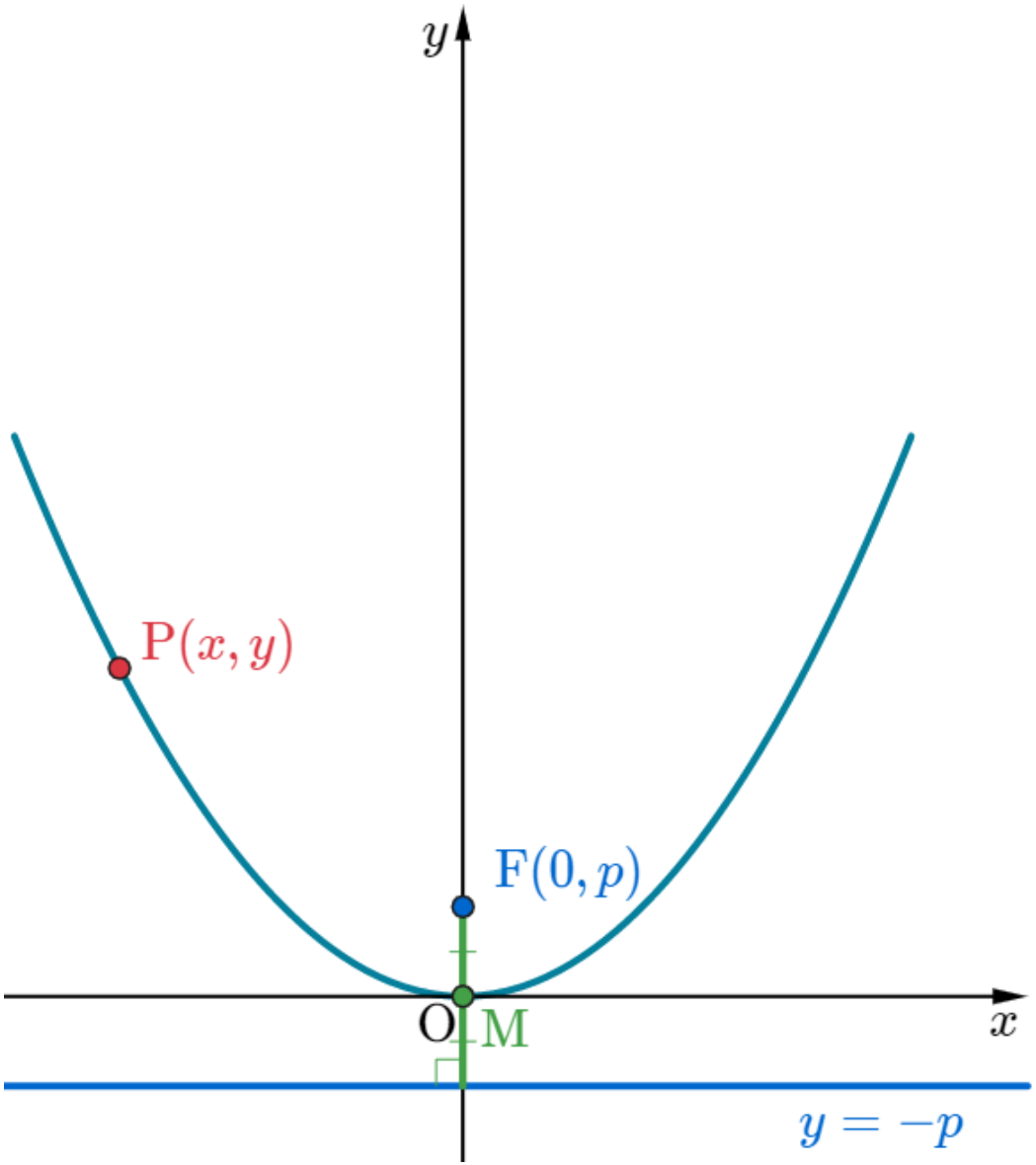

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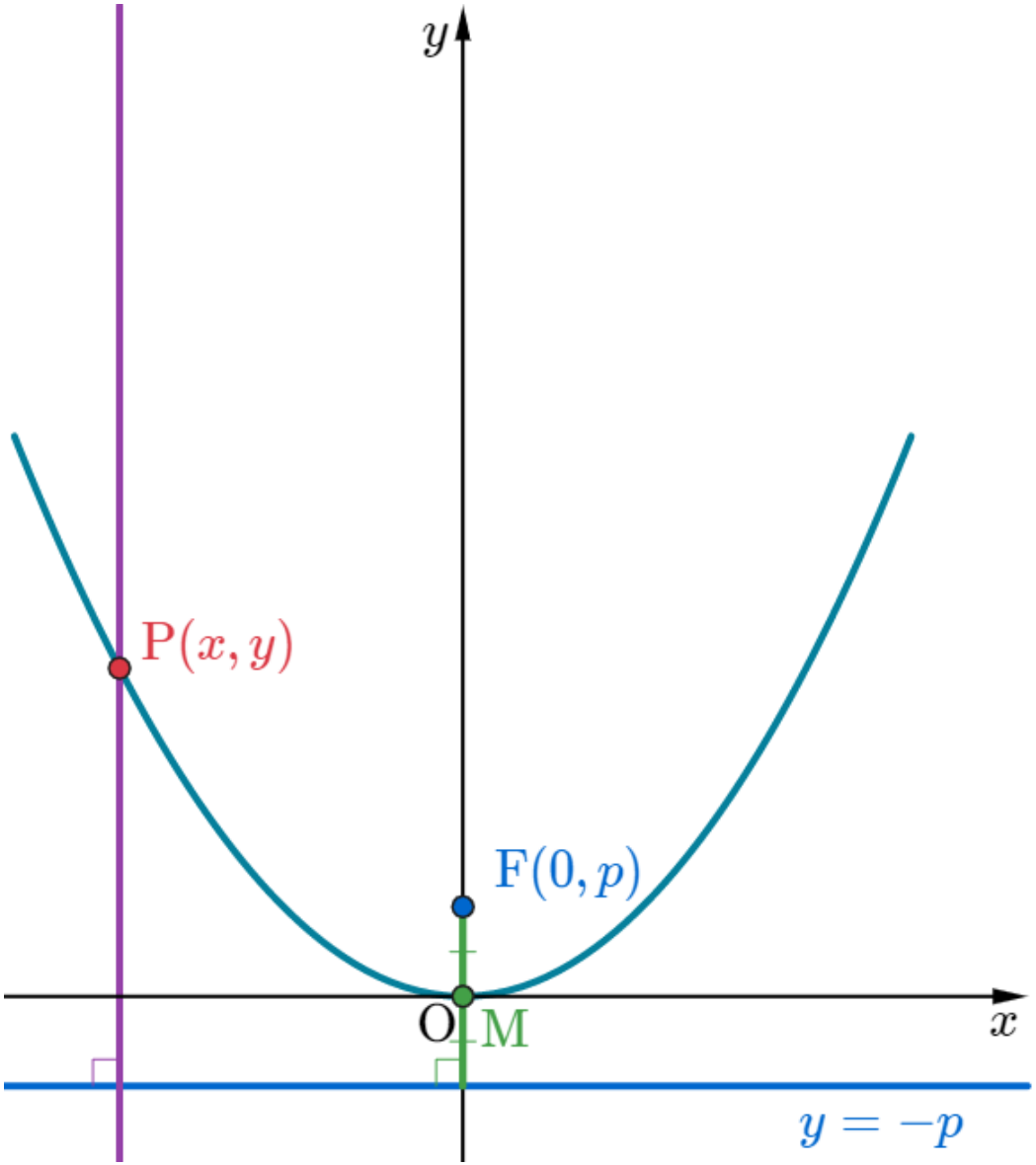

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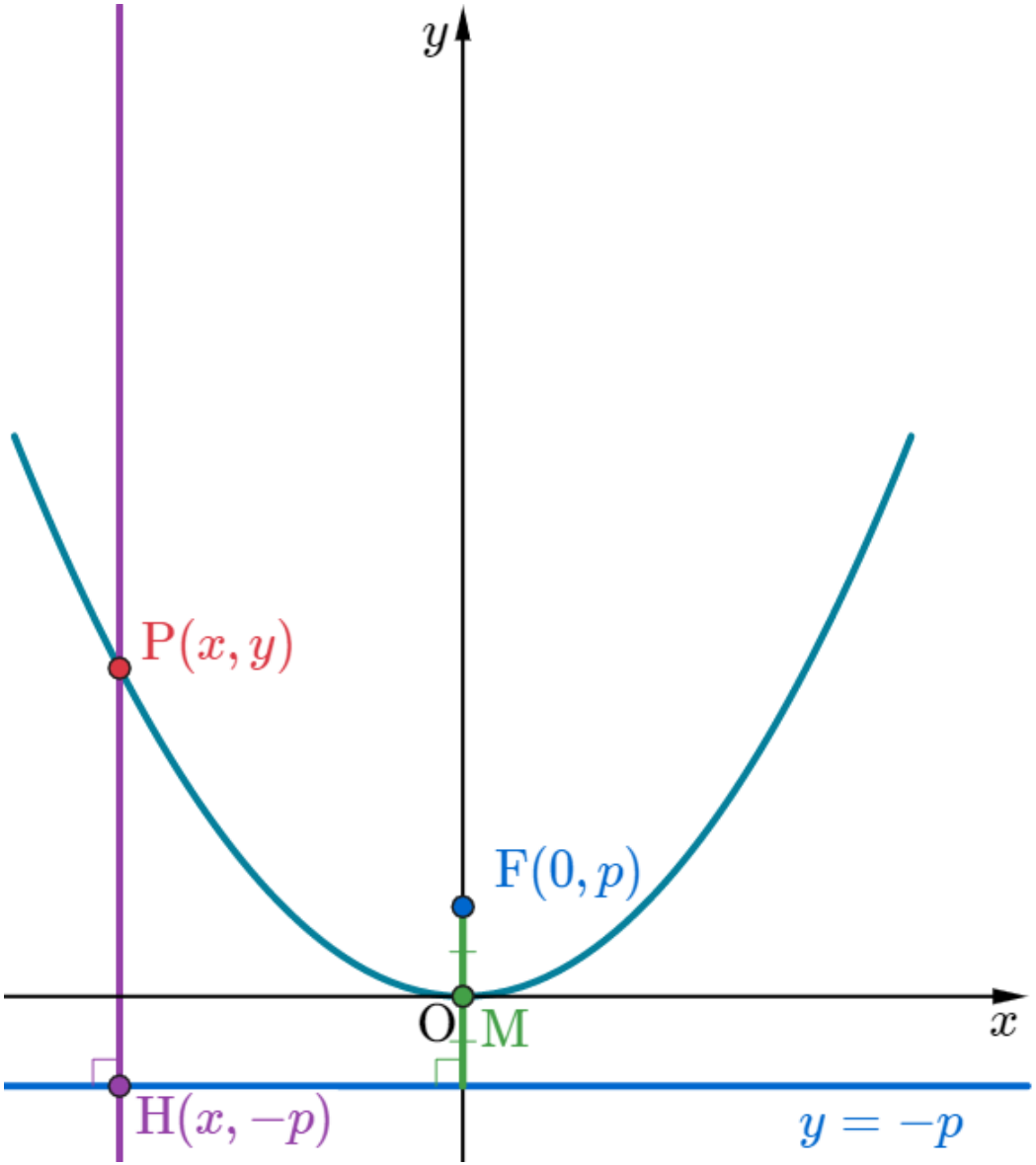

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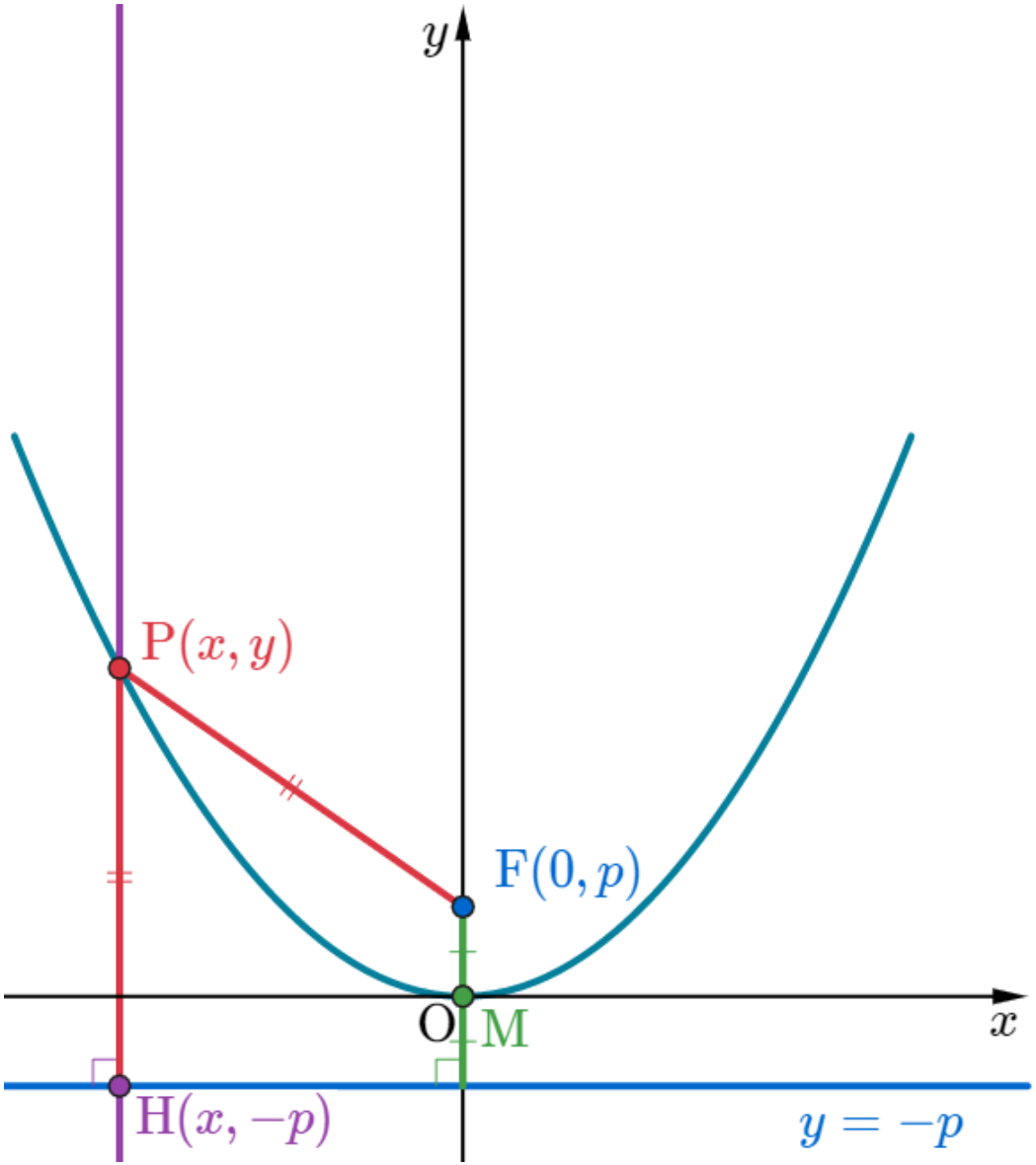

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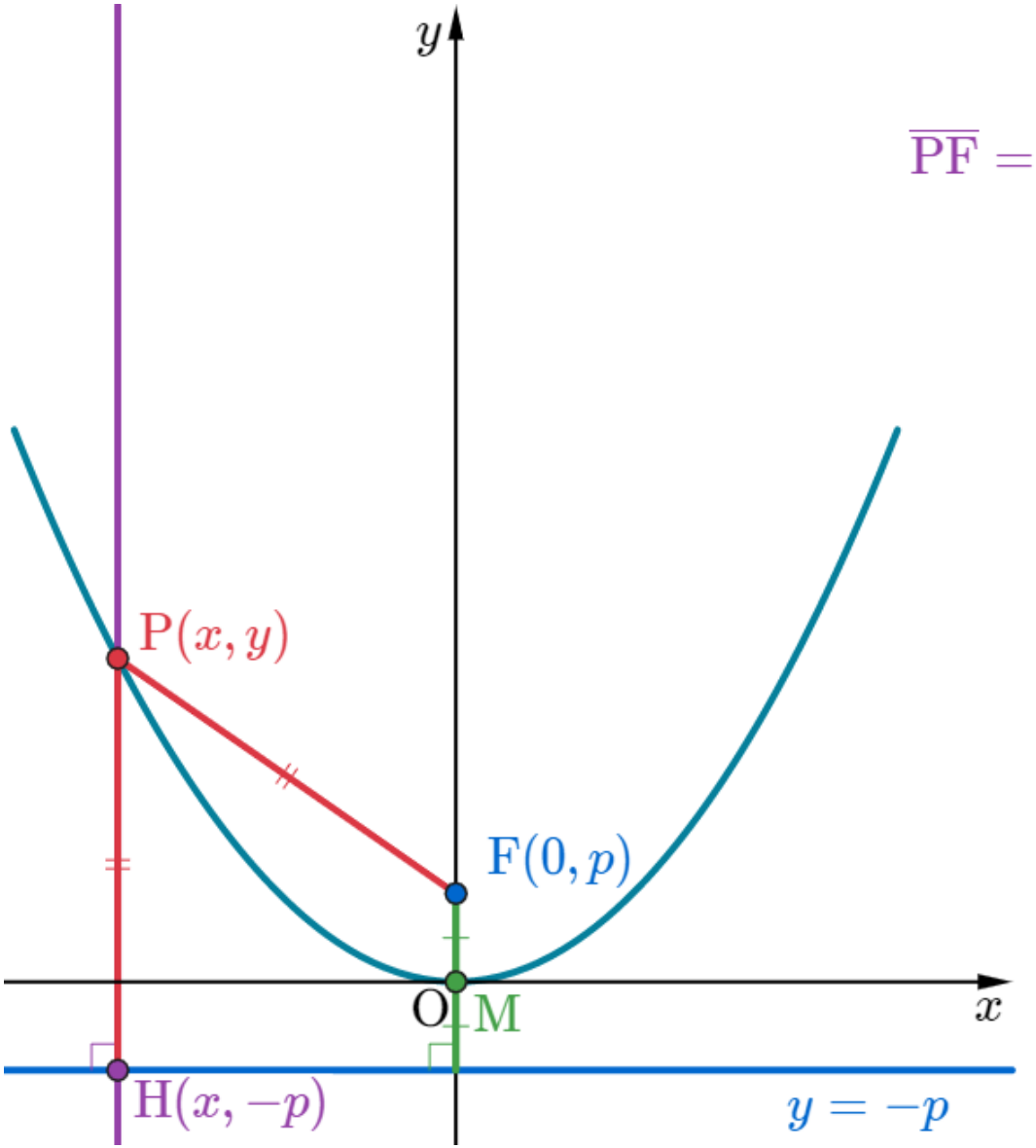

$$\overline{\mathrm{PF}} = \overline{\mathrm{PH}}$$

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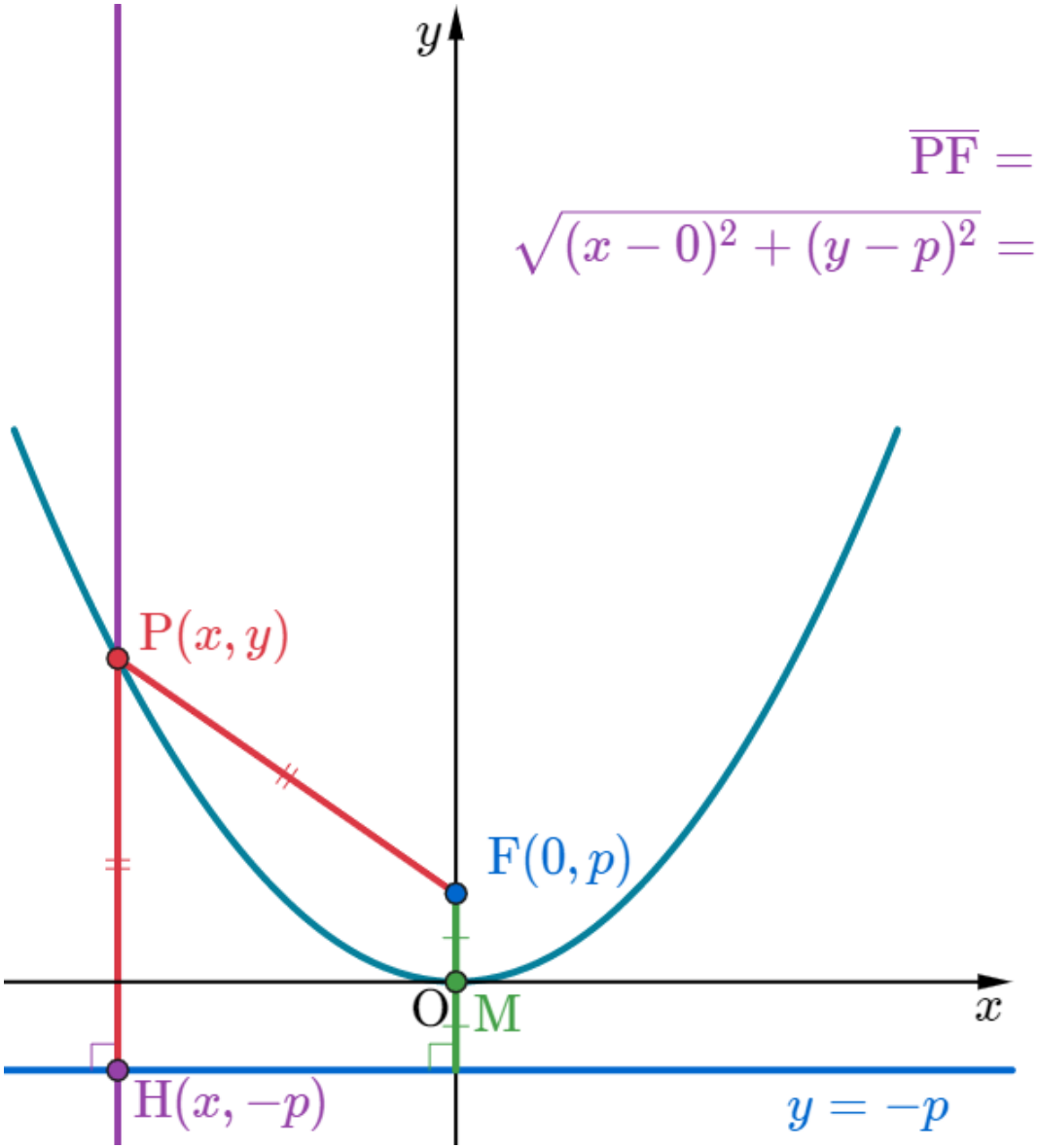

$$\overline{\mathrm{PF}} = \overline{\mathrm{PH}}$$

$$\sqrt{(x-0)^2 + (y-p)^2} = \sqrt{(x-x)^2 + \{y-(-p)\}^2}$$

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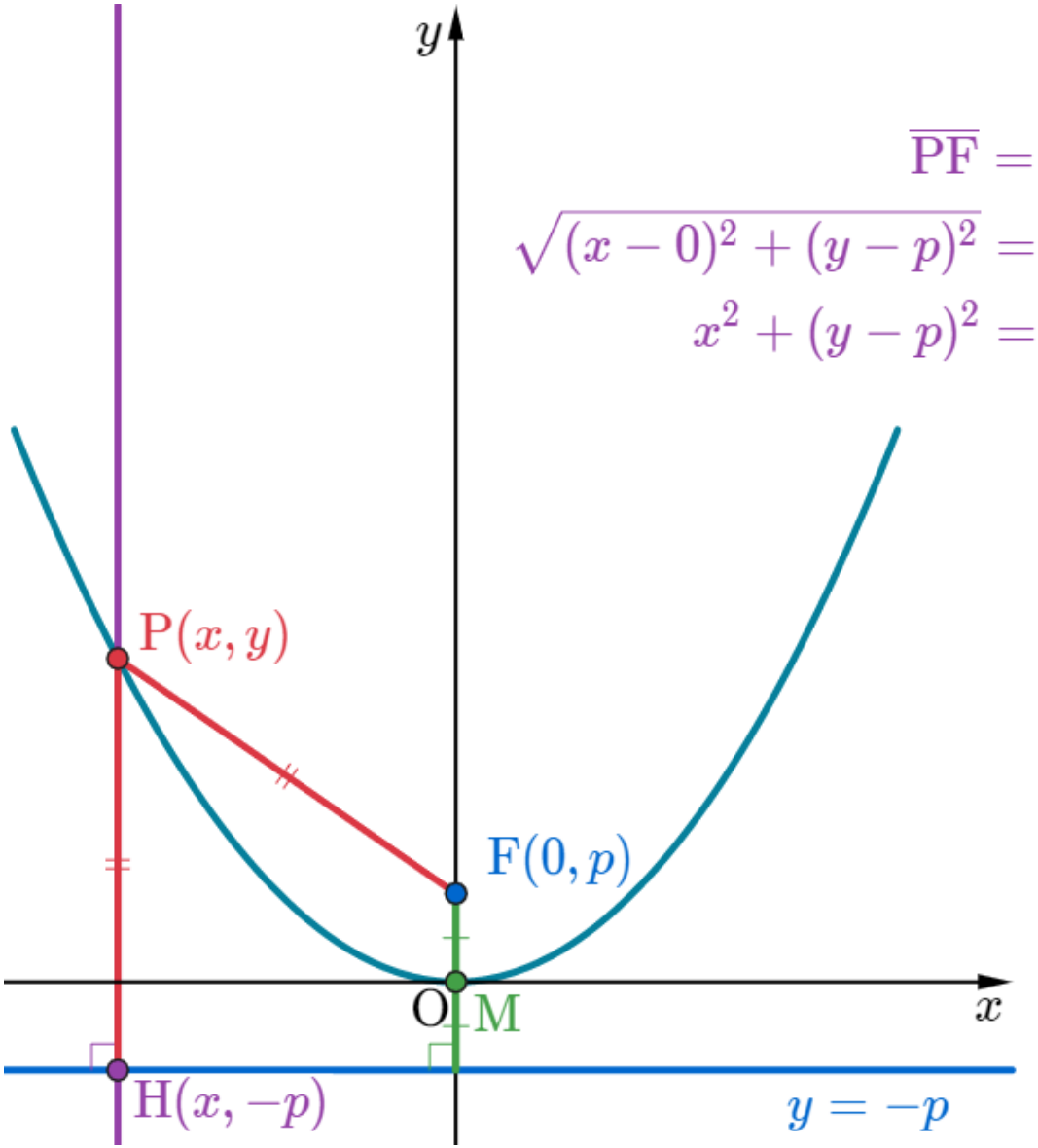

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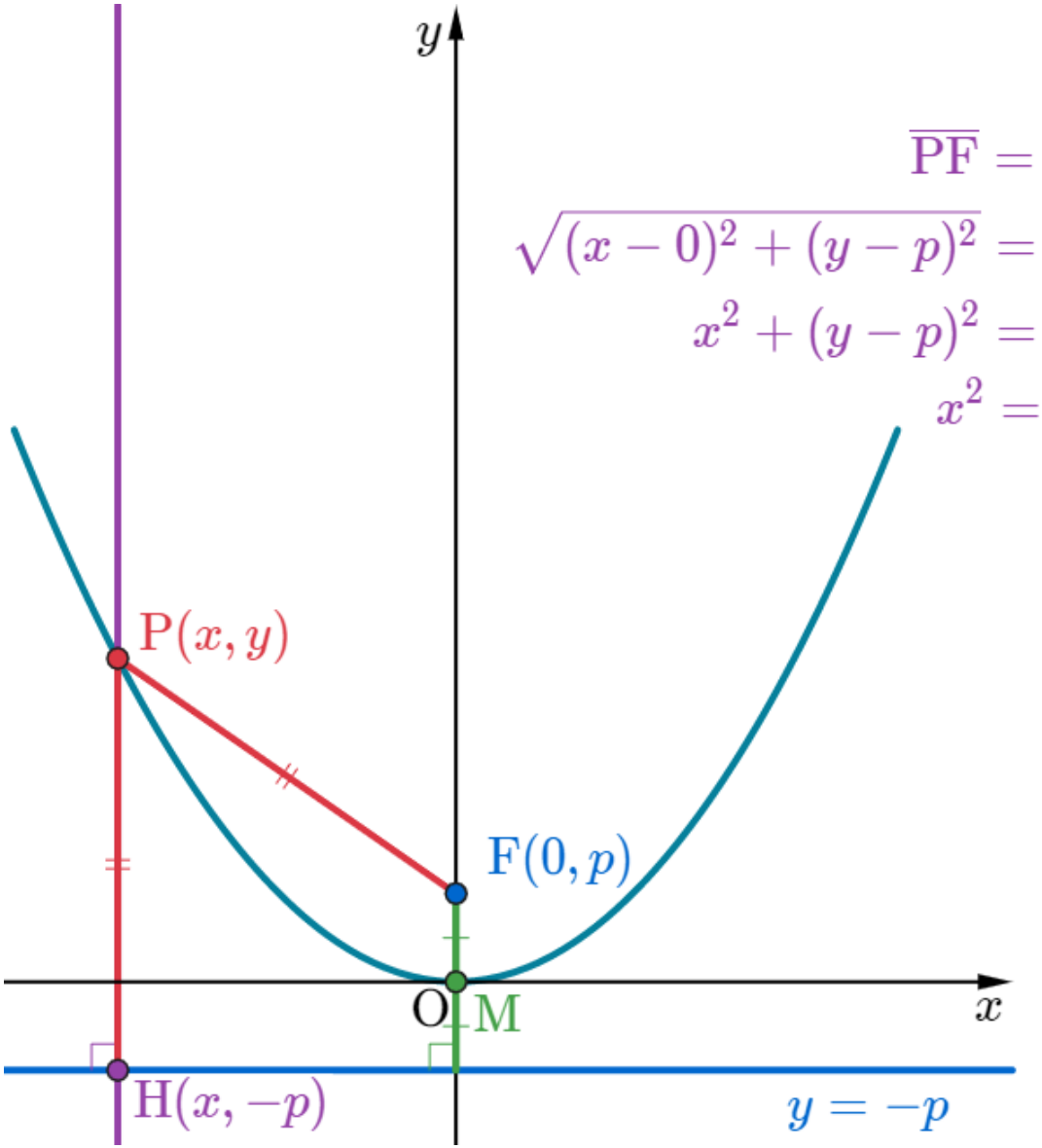

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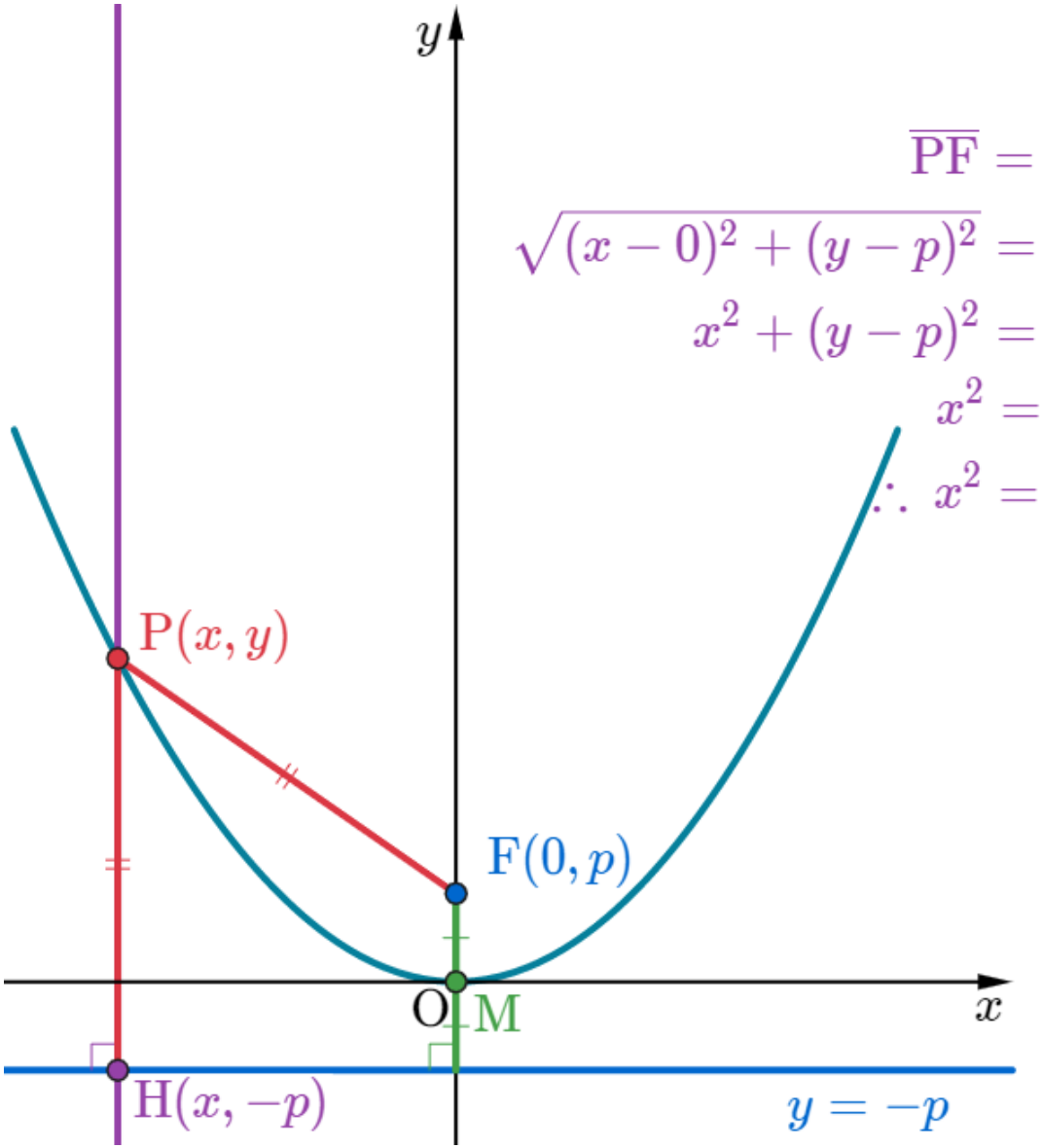

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$$\therefore\ x^2 = 4py$$

Github:
https://min7014.github.io/math20200415002.html

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