

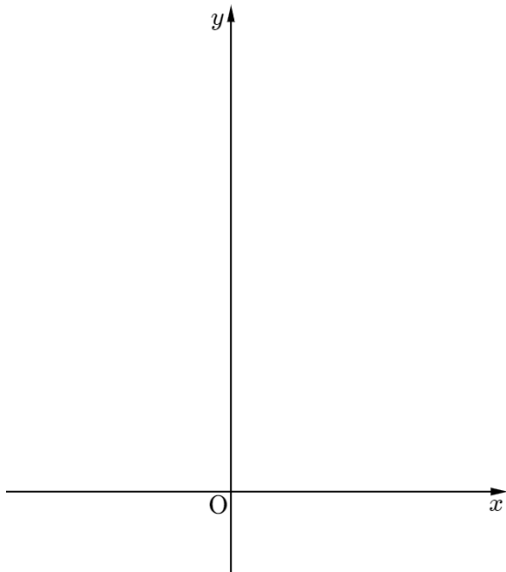
When a directrix is $y = -p$ and a focus is $(0, p)$, find the equation of the parabola.

준선이 $y = -p$ 이고 초점이 $(0, p)$ 일 때,
포물선의 방정식을 구하여라.

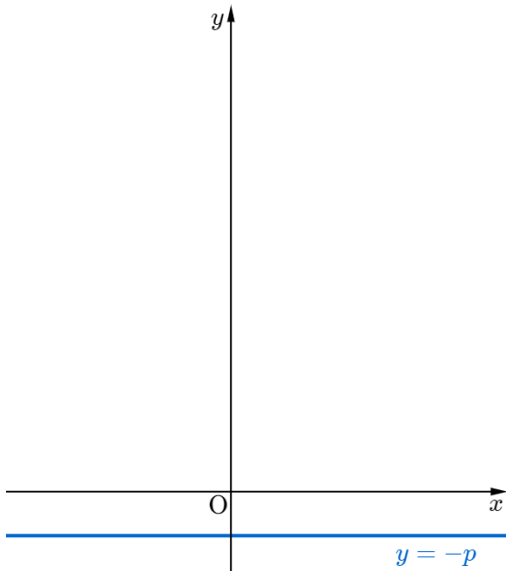
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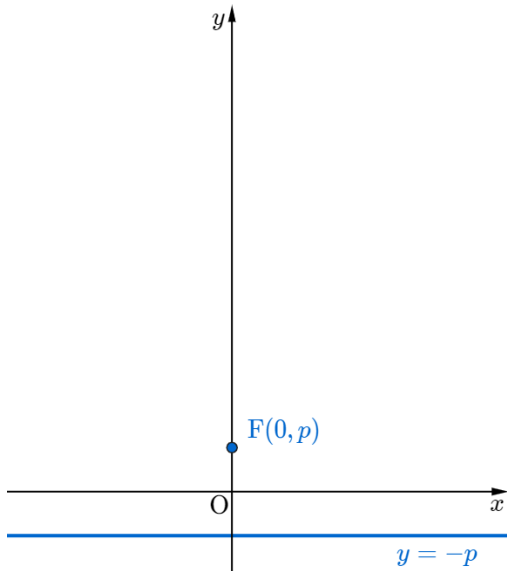
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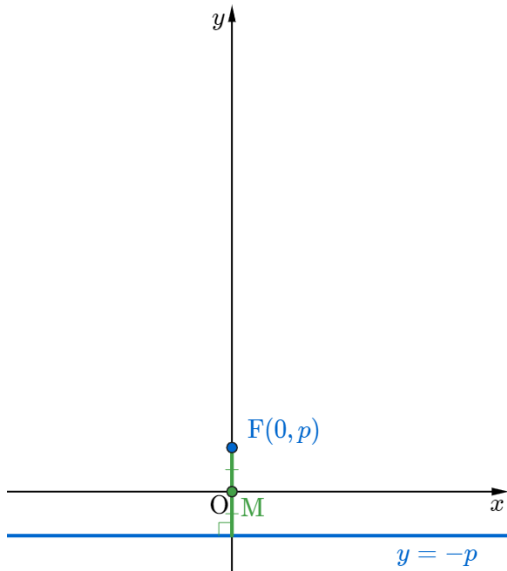
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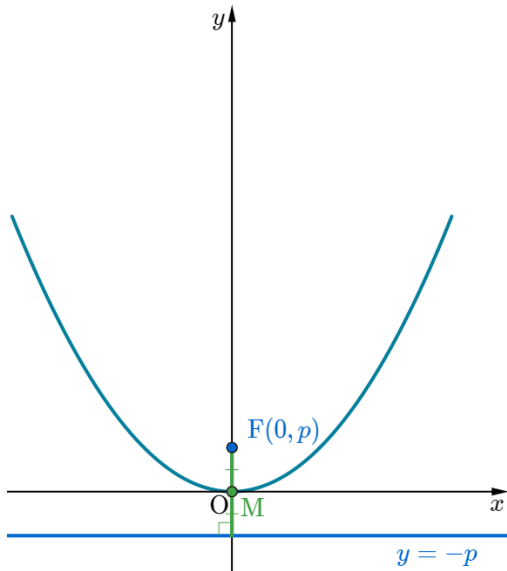
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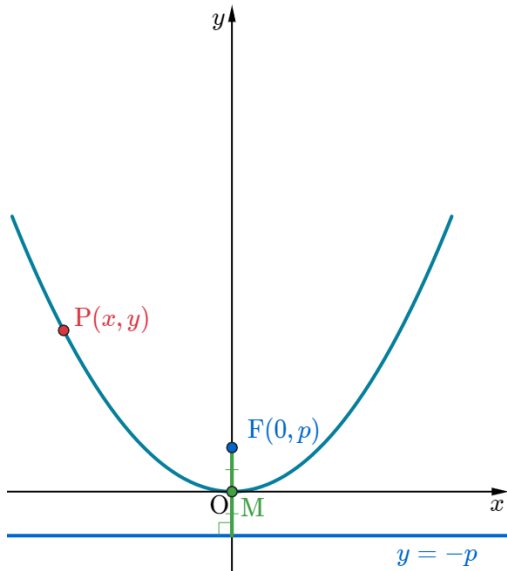
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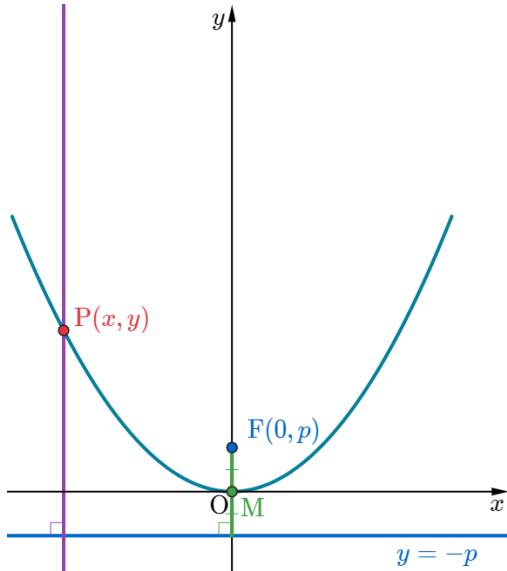
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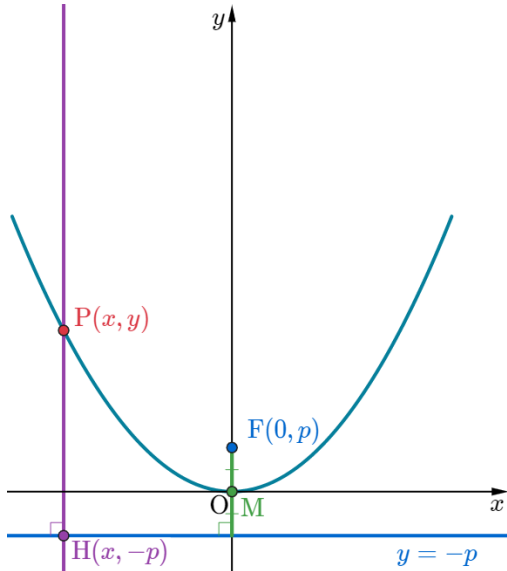
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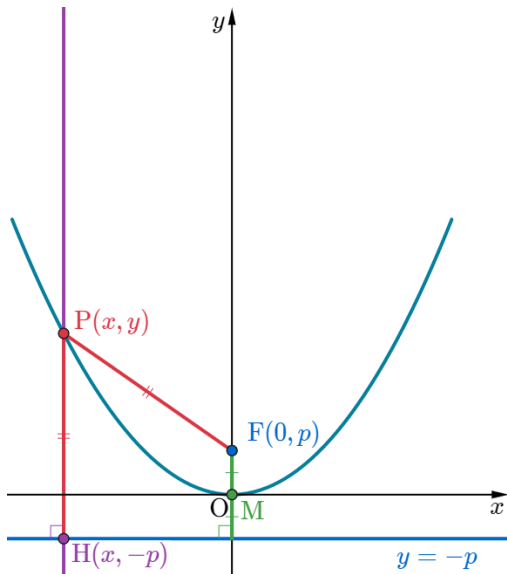
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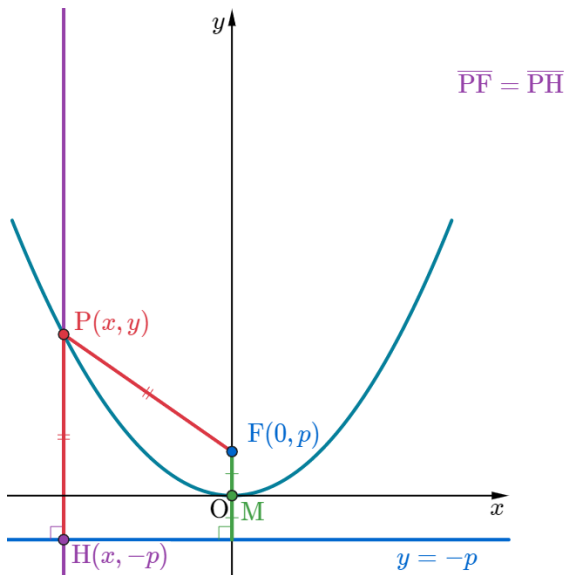
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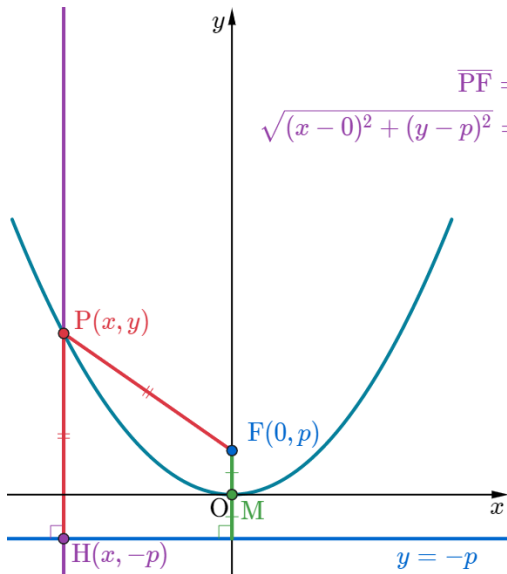
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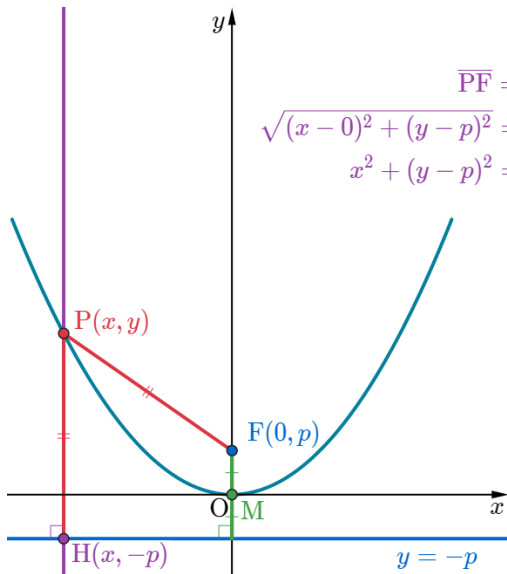


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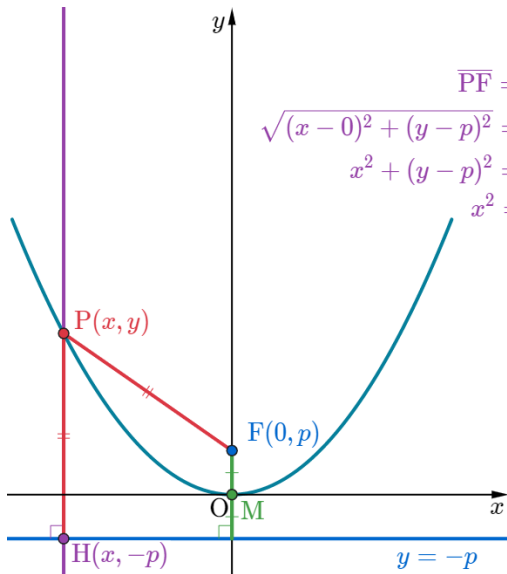
$$\overline{PF} = \overline{PH}$$
$$\sqrt{(x - 0)^2 + (y - p)^2} = \sqrt{(x - x)^2 + \{y - (-p)\}^2}$$

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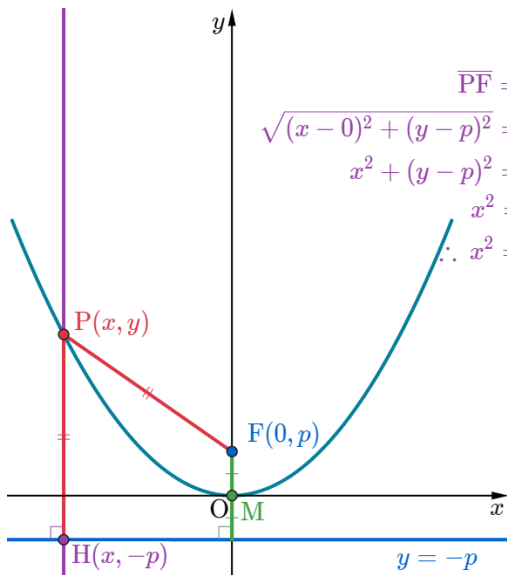
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$$x^2 = (y+p)^2 - (y-p)^2$$

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When a directrix is $y = -p$ and a focus is $(0, p)$, find the equation of the parabola.

Github:

<https://min7014.github.io/math20200415002.html>

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