When a directrix is $y = -p$ and a focus is $(0, p)$, find the equation for the tangent line having slope m to the parabola.[Geometric Approach]

준선이 $y = -p$ 이고 초점이 $(0, p)$ 일 때,
포물선에서의 기울기가 m인 접선의 방정식을
구하여라.[기하적 접근]

(When a directrix is $y = -p$ and a focus is $(0, p)$, find the equation for the tangent line having slope m to the parabola.[Geometric Approach])

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Start End

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Start End

$y = -p$

When a directrix is $y = -p$ and a focus is $(0, p)$, find the equation for the tangent line having slope m to the parabola.[Geometric Approach]

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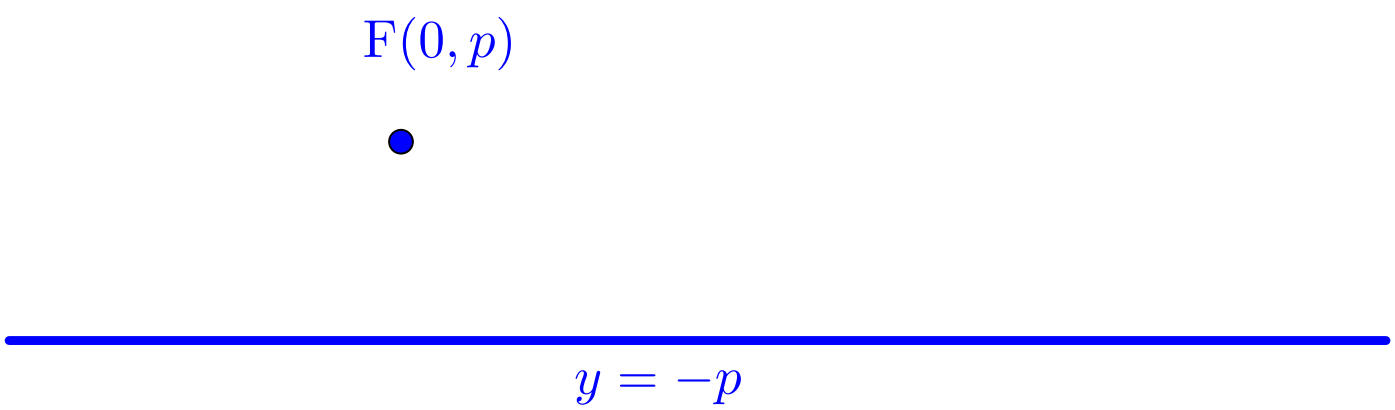

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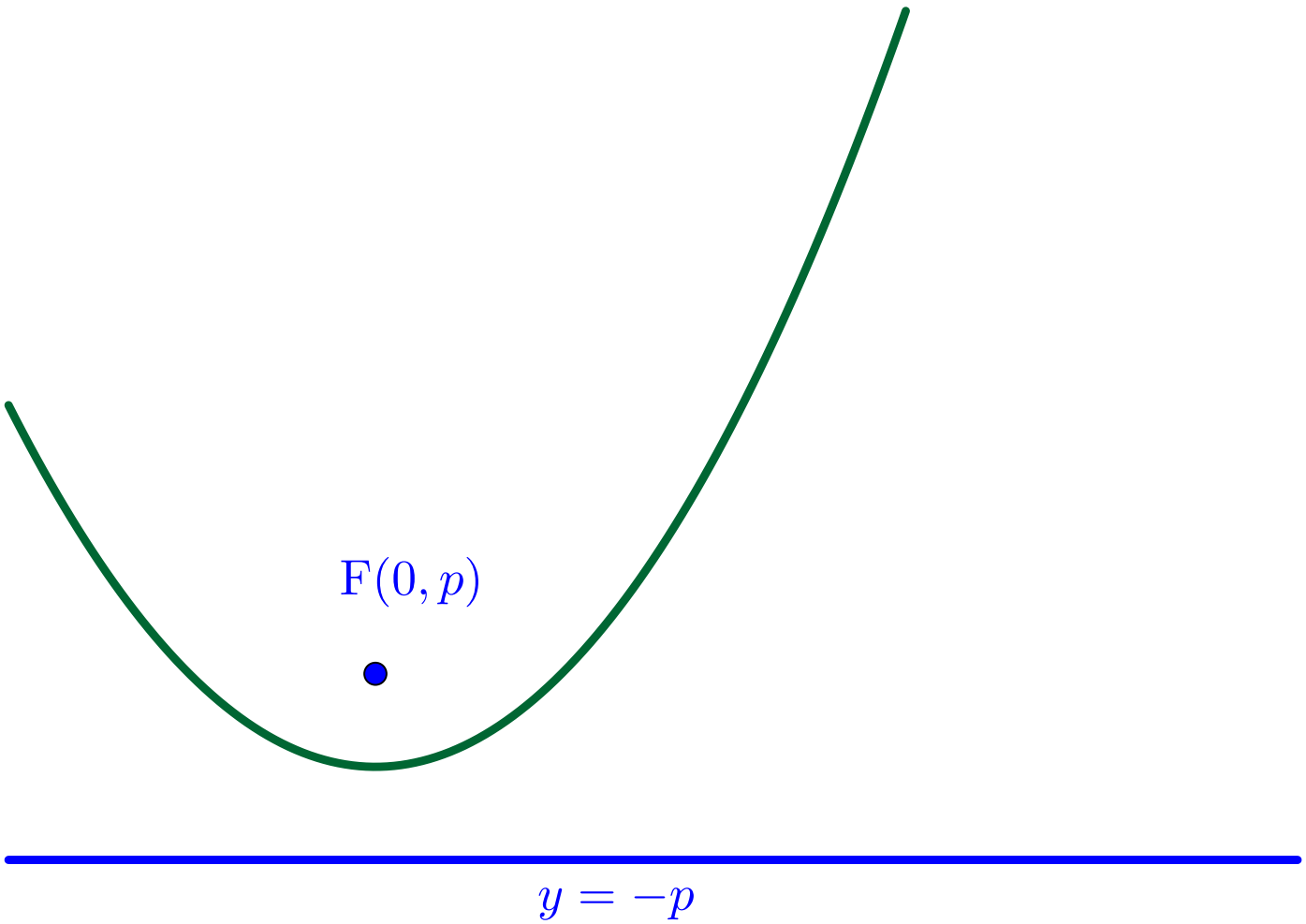

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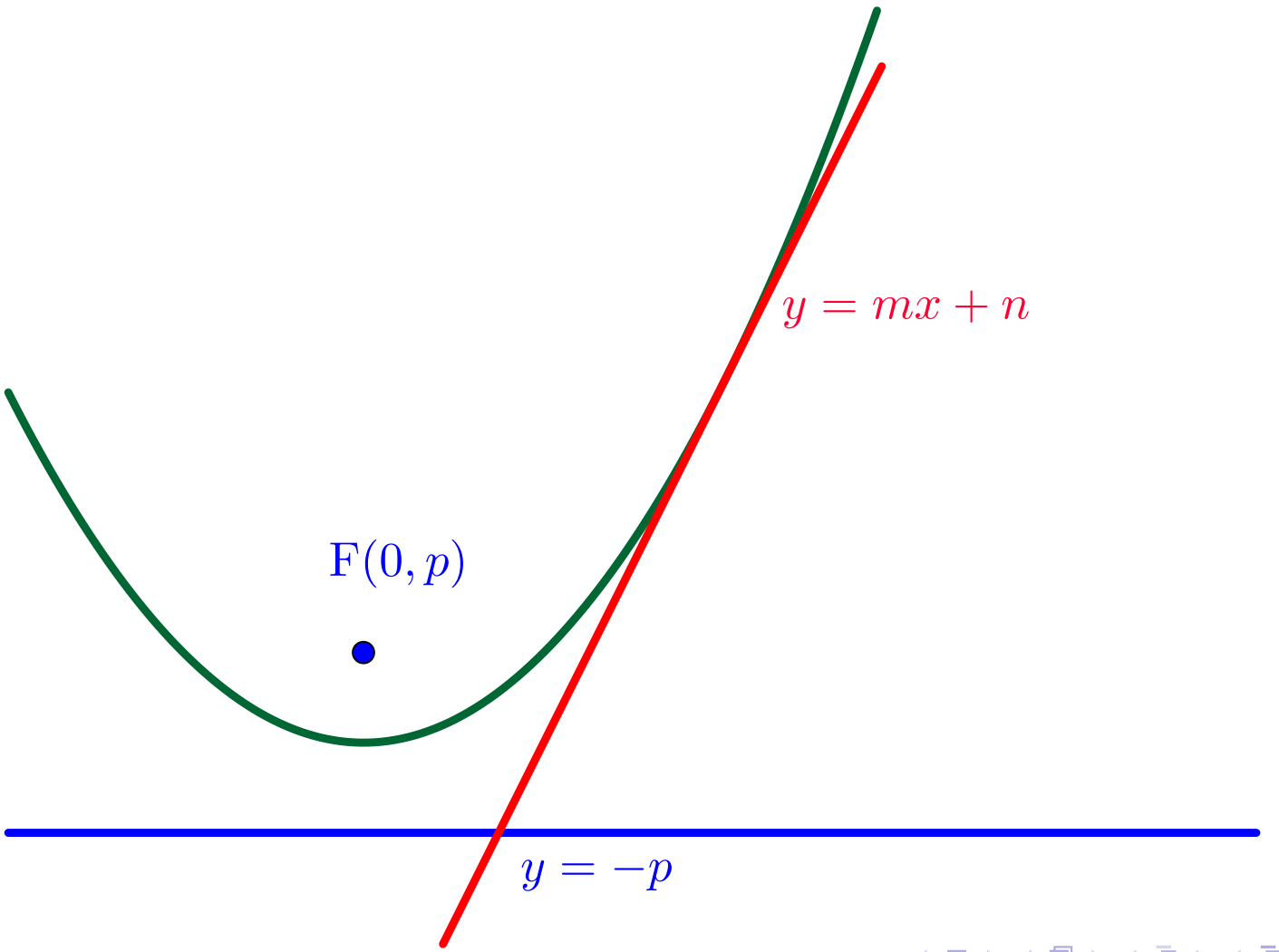

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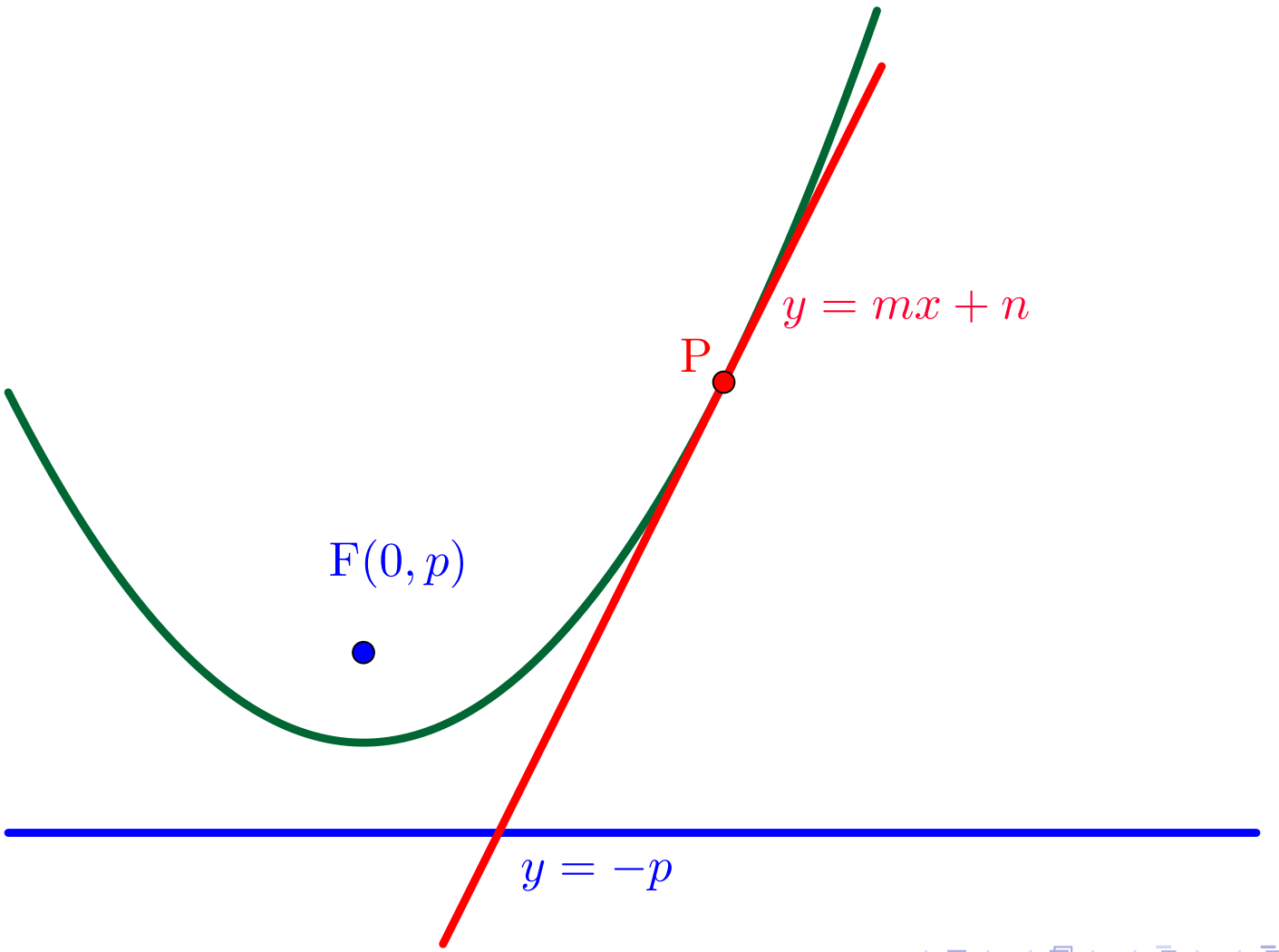

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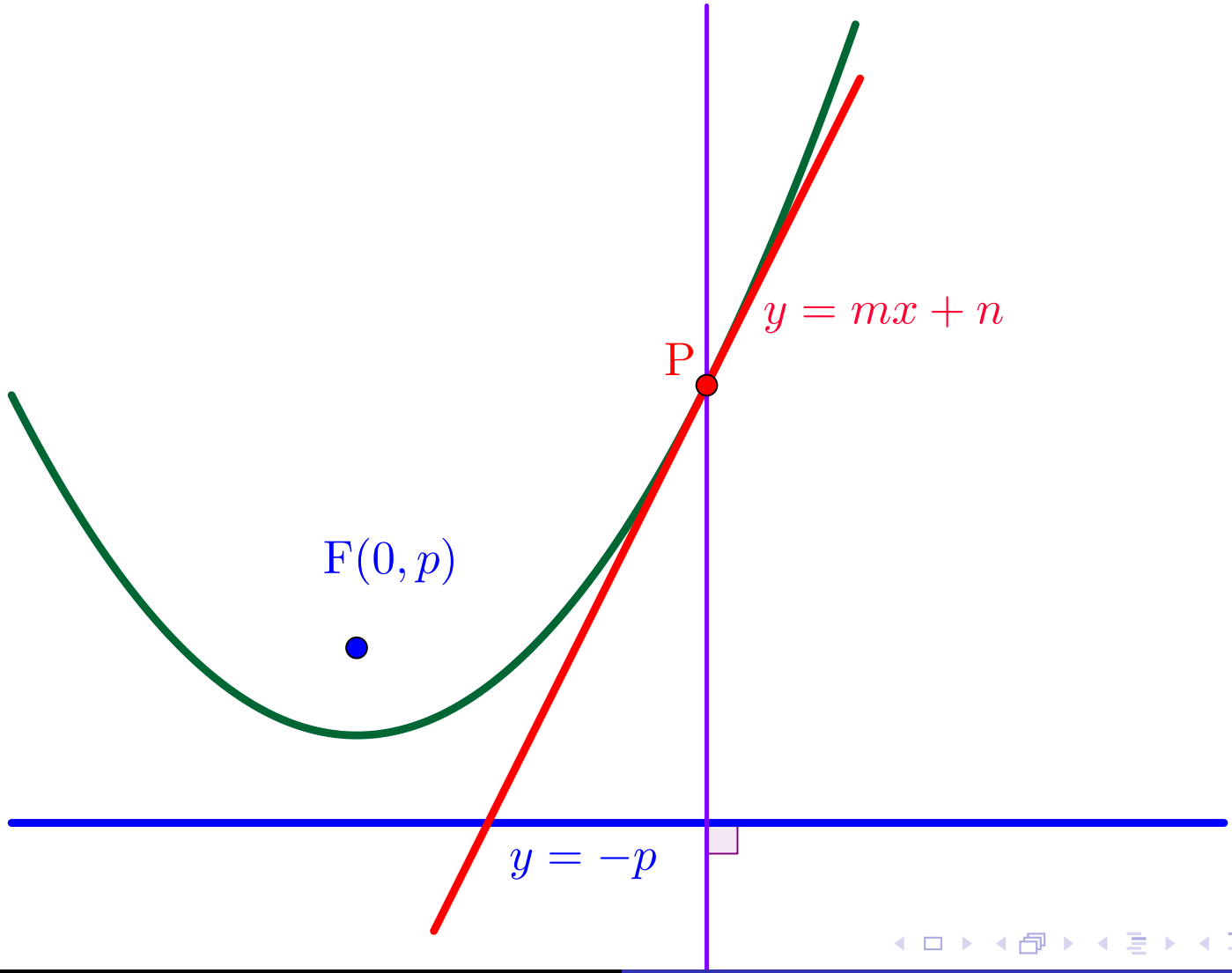

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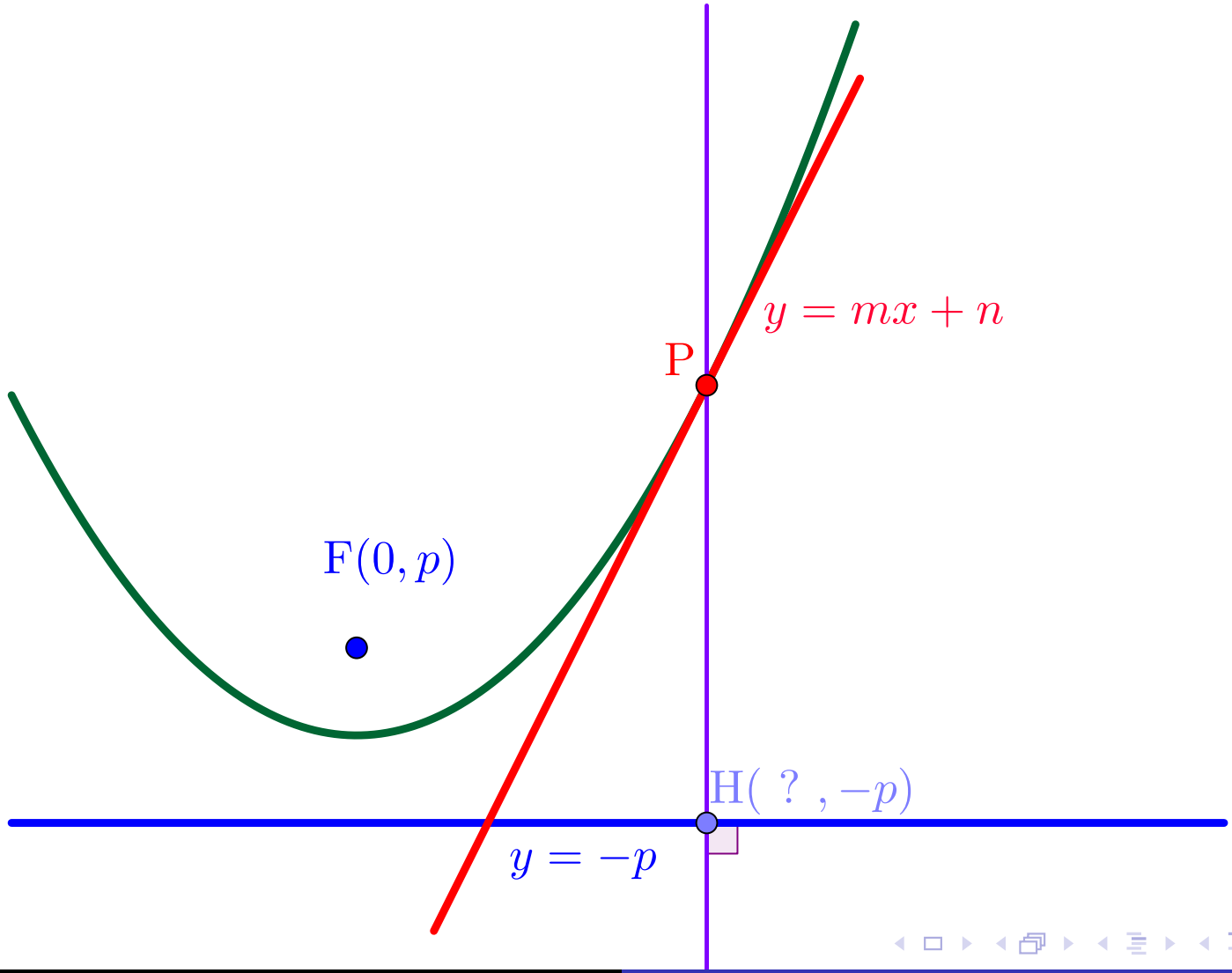

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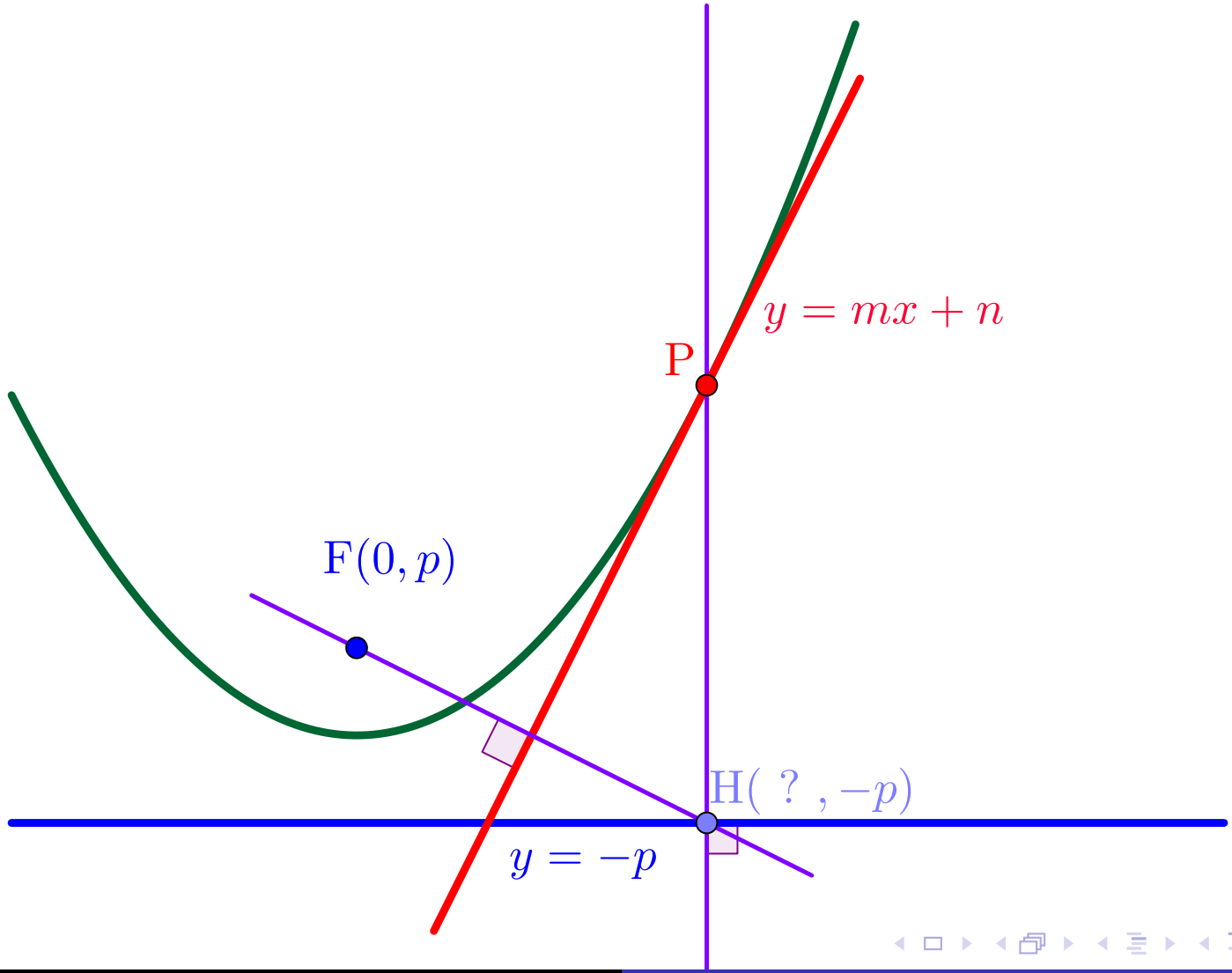

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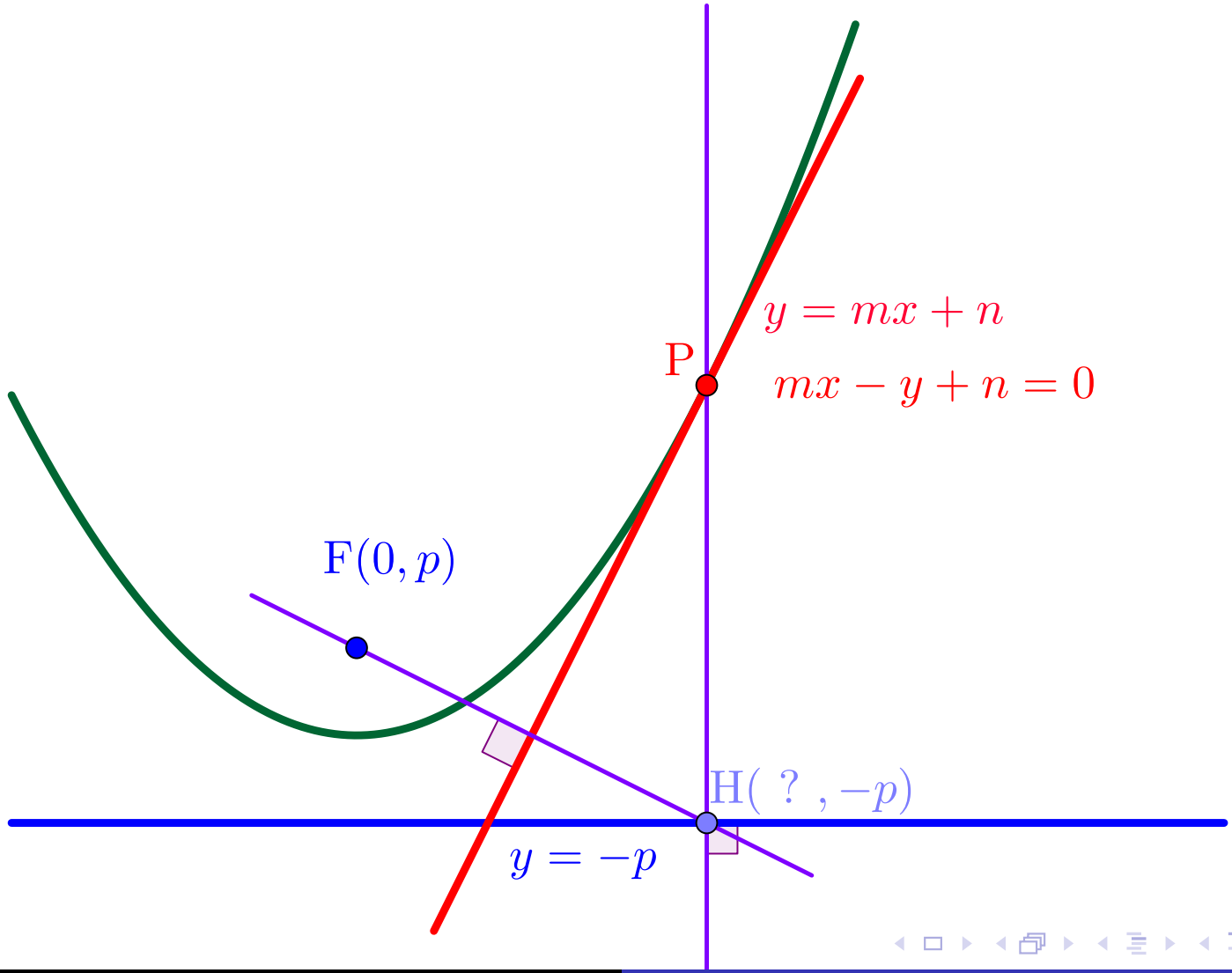

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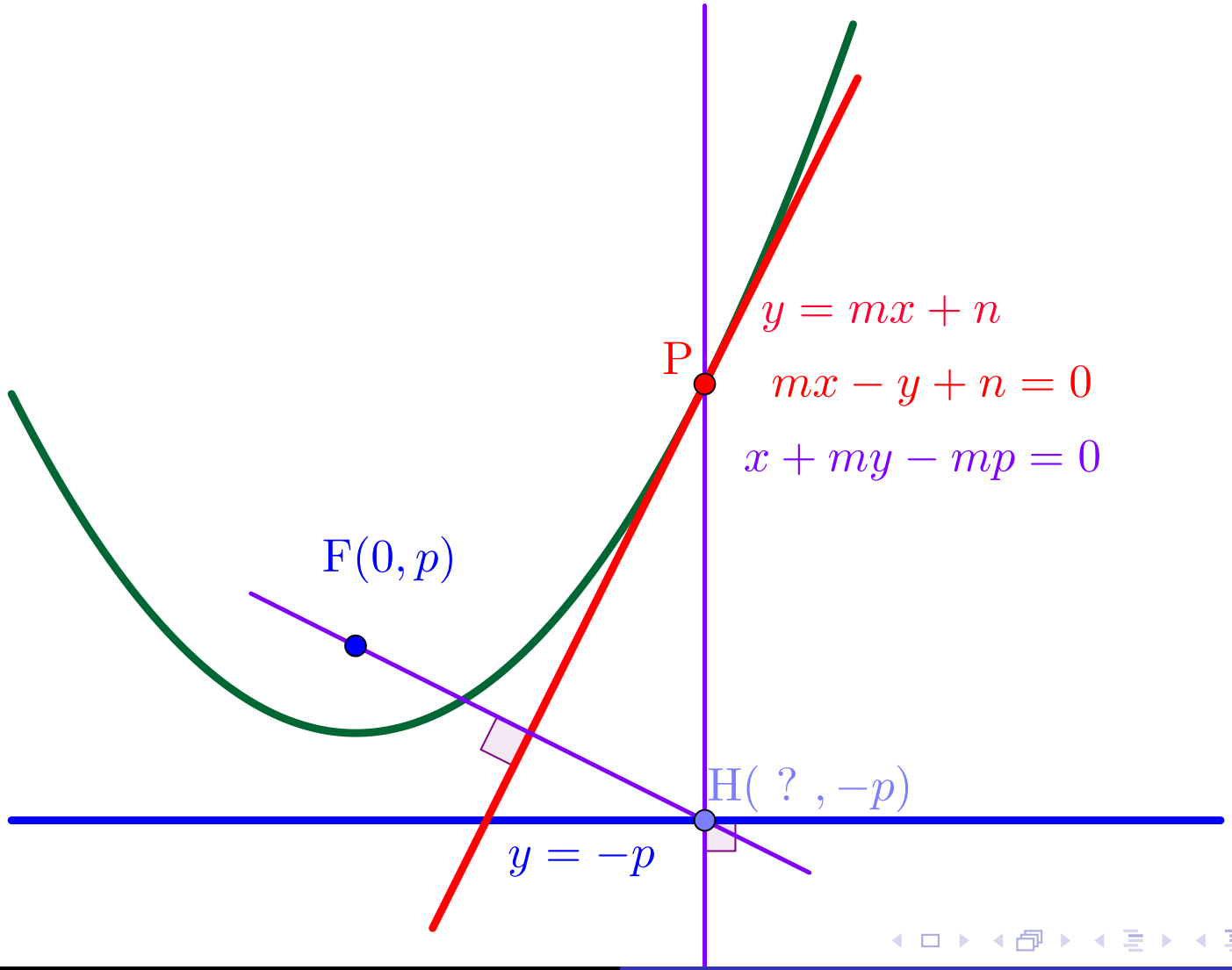

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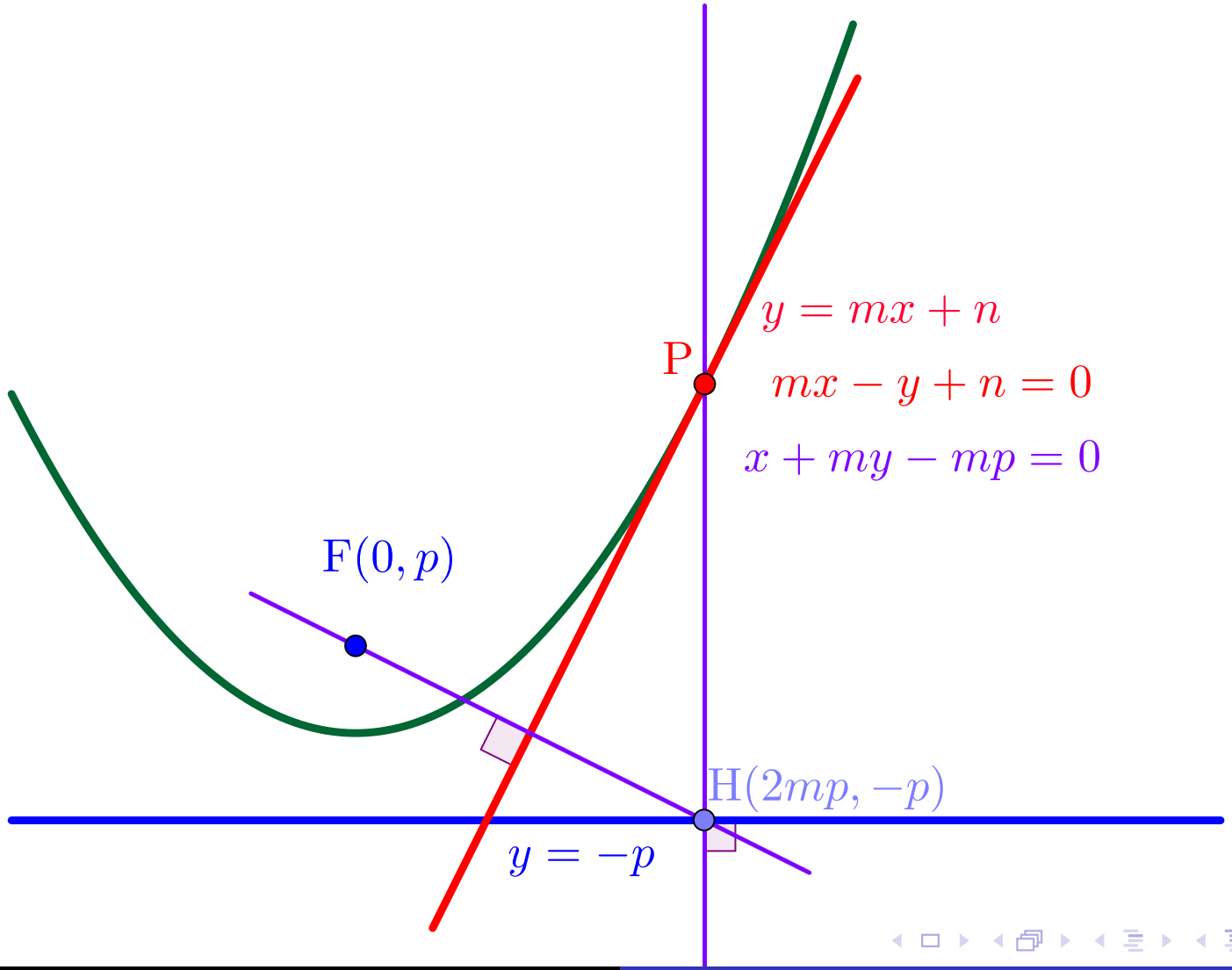

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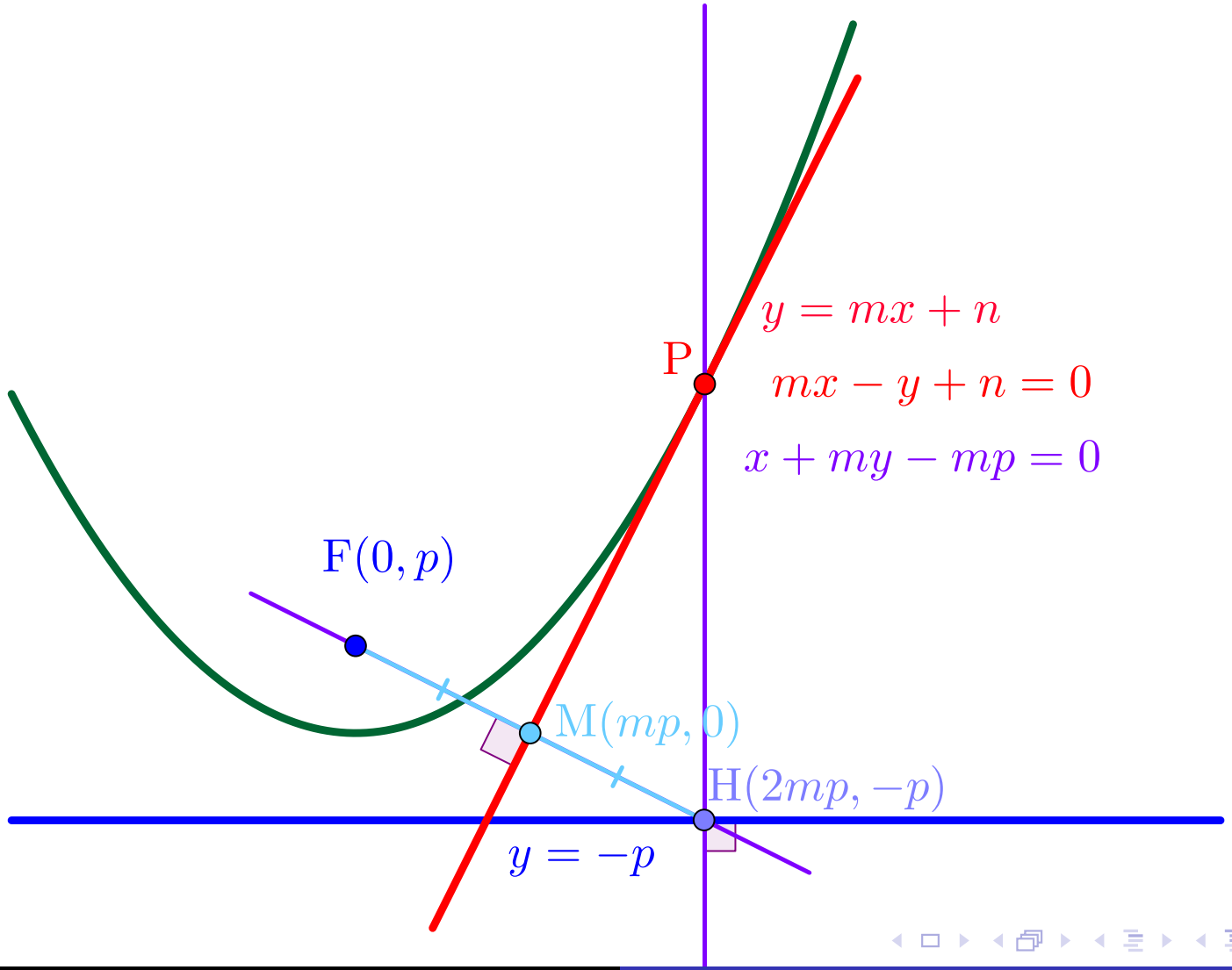

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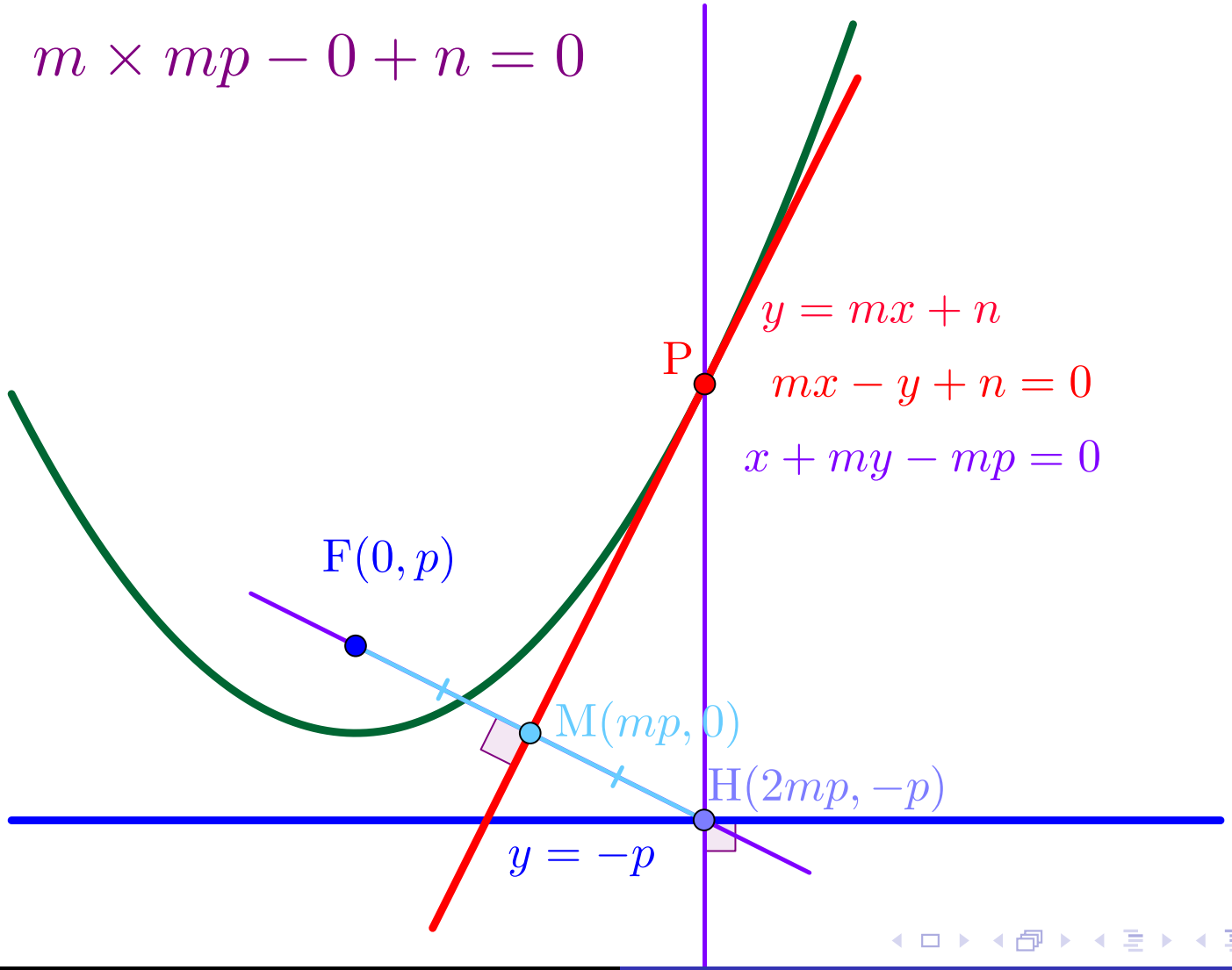

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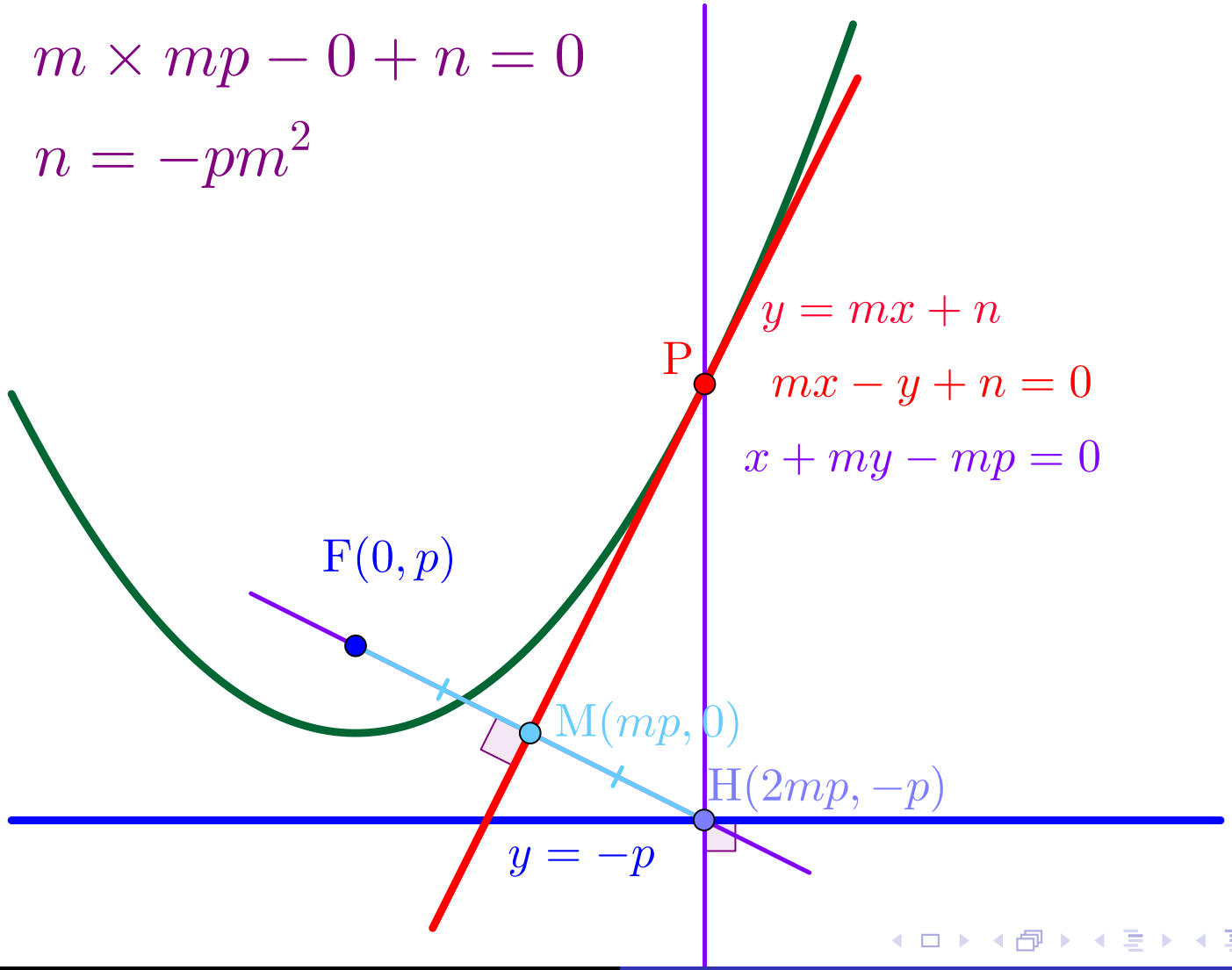

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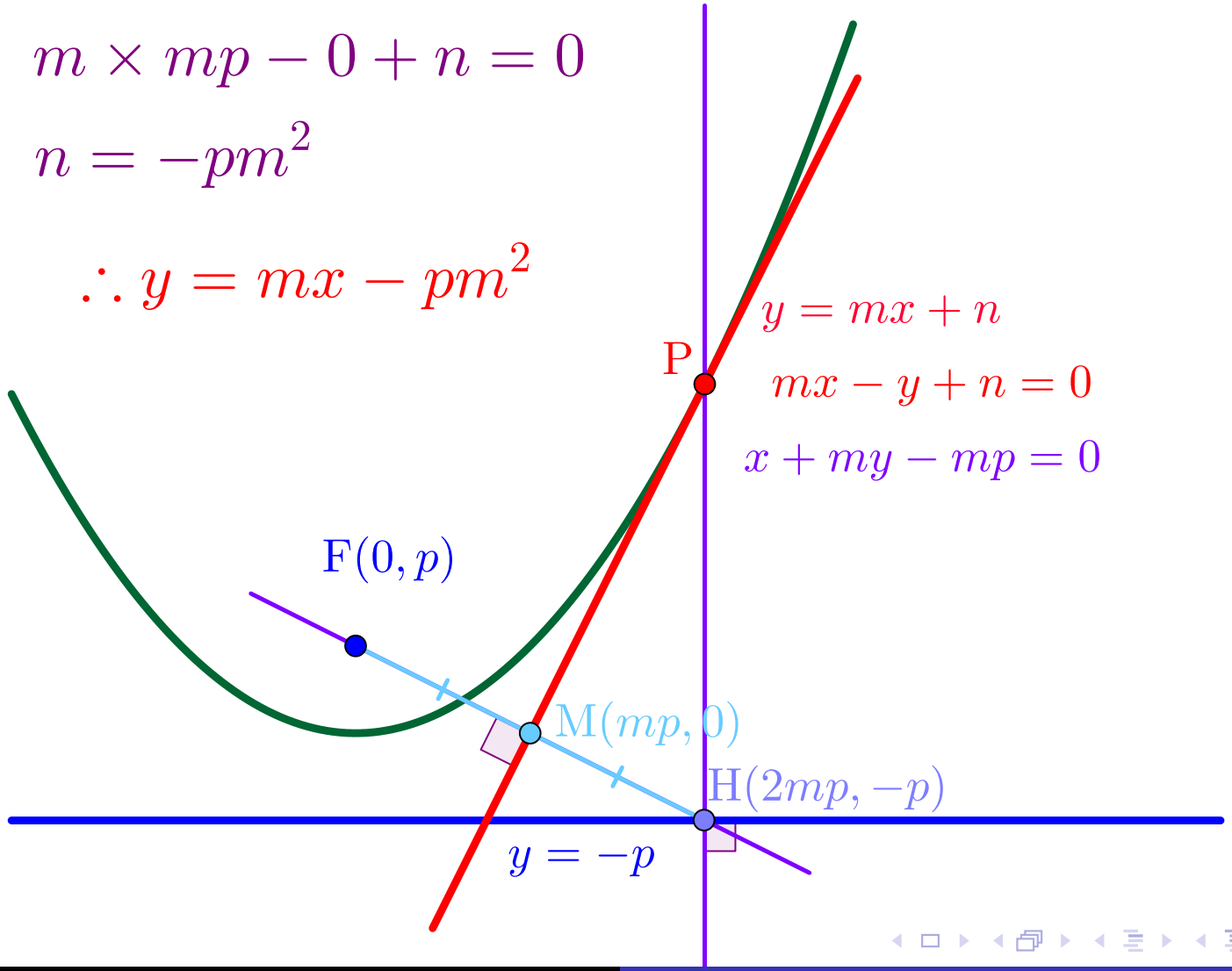
Start End

$$m \times mp - 0 + n = 0$$

$$n = -pm^2$$

$$\therefore y = mx - pm^2$$



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Github:
https://min7014.github.io/math20220328001.html

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