

With a directrix and a focus when a perpendicular line passing a point on the directrix is given, draw a point on the perpendicular line passing the parabola.

준선과 초점이 있고 준선 상의 한 점을 지나는
수직선이 있을 때 그 수직선과 만나는 포물선 상의
점을 작도하라.

(With a directrix and a focus when a perpendicular line passing a point on the directrix is given, draw a point on the perpendicular line passing the parabola.)

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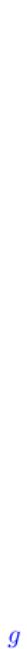
▶ Start

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A diagram showing a vertical blue line labeled g on the x-axis. This line intersects a horizontal purple line labeled H at a point marked with a black dot and labeled F . A small square is drawn at the intersection point F .

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A diagram showing a vertical blue line labeled g on the x-axis. This line intersects a horizontal pink line at a point labeled H , which is marked with a small black dot and a square symbol indicating a right angle. A magenta line segment connects point H to a point labeled F , which is marked with a small black dot.

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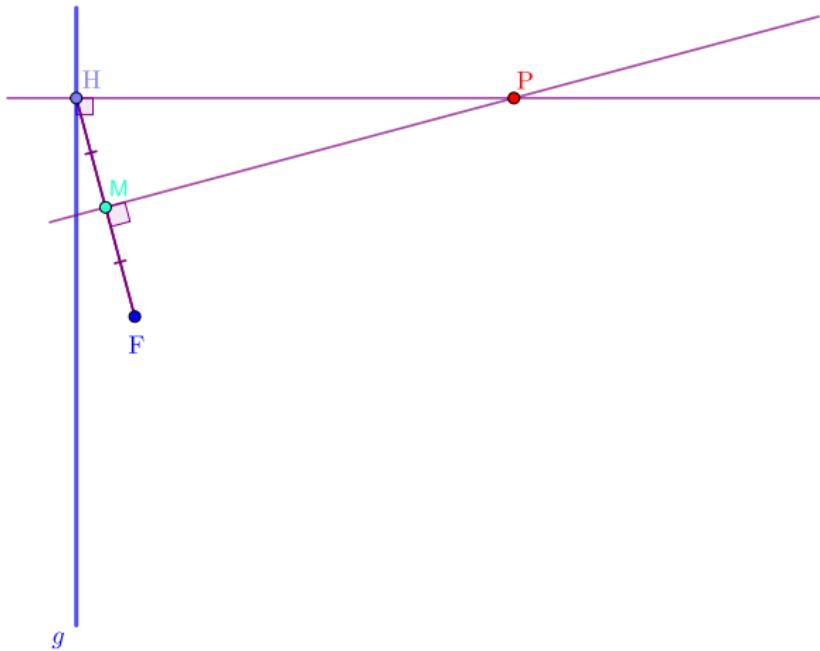
A diagram showing a vertical blue line labeled g on its left side. This line intersects a horizontal pink line labeled H at a point marked with a small black circle and labeled H . On the horizontal line H , there is another point marked with a small green circle and labeled M . Below point M on the same horizontal line H is a third point marked with a small black circle and labeled F .

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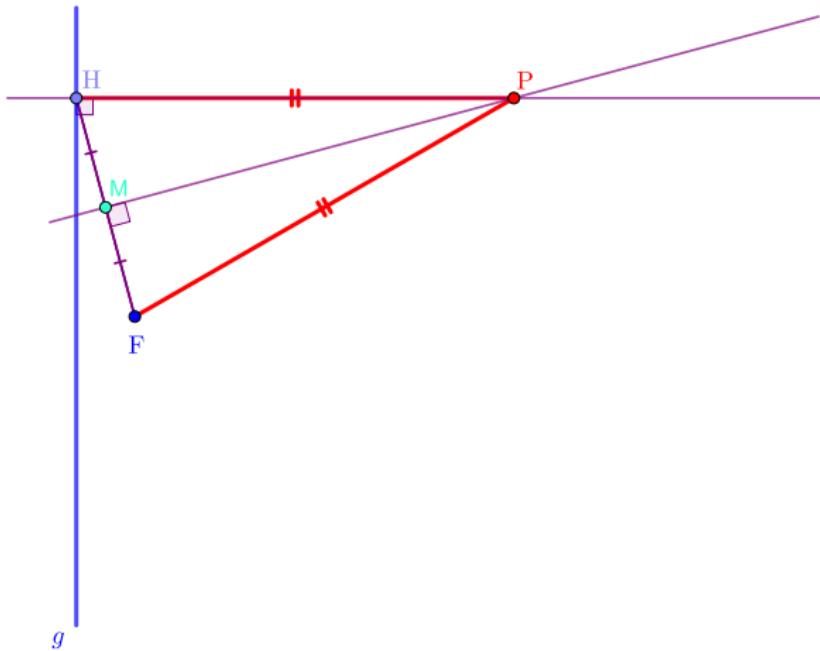
A diagram showing a right-angled triangle HMF with vertices H , M , and F . The hypotenuse HF is horizontal. The vertical leg MH is labeled g . A dashed line passes through M , perpendicular to HF , and intersects the hypotenuse HF at point N . Right-angle symbols are shown at M and N .

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▶ Start ▶ End



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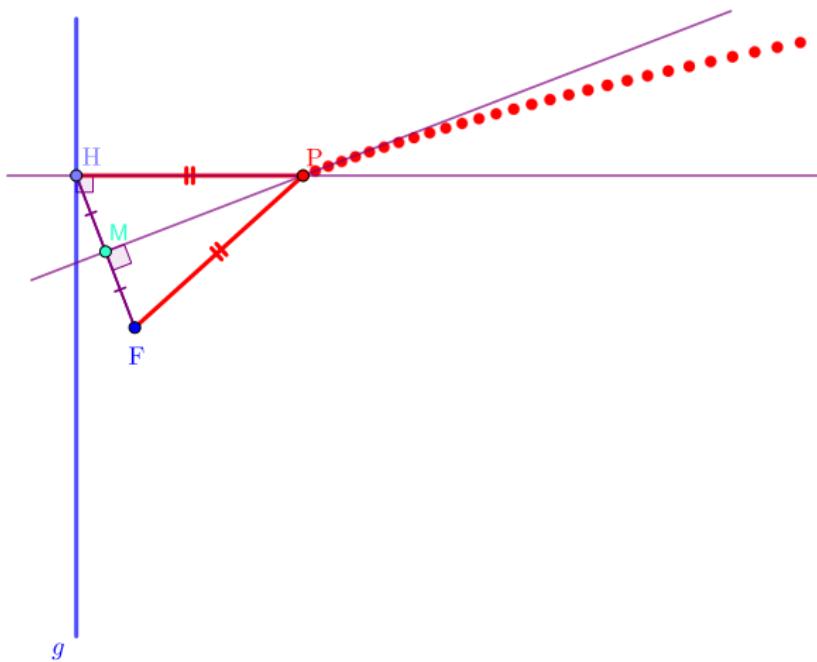
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The diagram illustrates a geometric construction. A vertical blue line is labeled g at its bottom. A horizontal red line is labeled H at its top-left end. A red curve, representing an arc of a circle, passes through a point labeled P on the right. The curve intersects the horizontal line H at two points, indicated by red double tick marks. A purple line segment connects the intersection point on H to point P . Point P is also connected to another point F on the vertical line g by a red line segment. A green dot labeled M is located on the purple line segment. Right-angle symbols are shown at the intersections of the purple line with both the horizontal line H and the vertical line g .

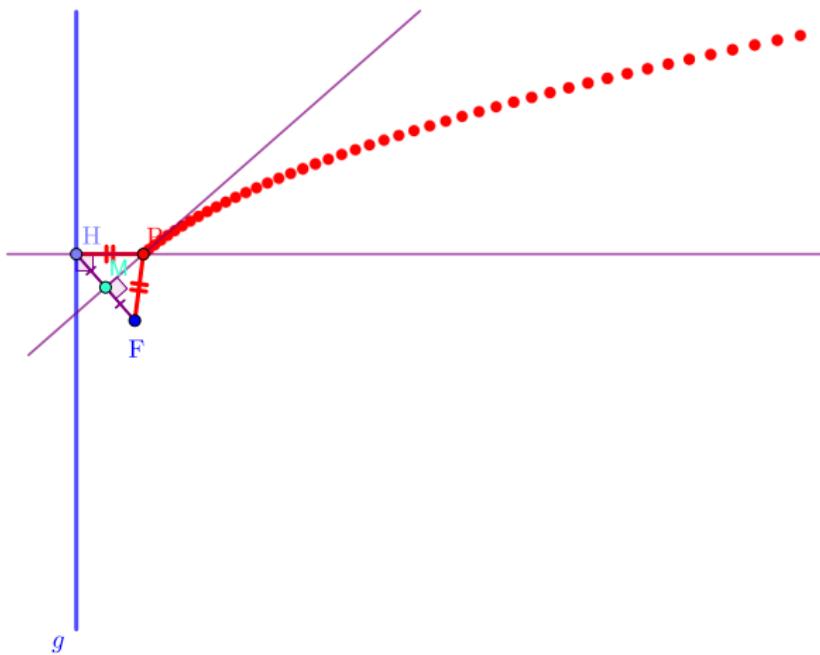
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The diagram illustrates a hyperbola opening to the right. The horizontal axis is shown as a red line with two red double tick marks. A point labeled P is marked on the right branch of the hyperbola. The center of the hyperbola is indicated by a purple dot. Two points, H and M , are marked on the left branch of the hyperbola. Point H is at the top, and point M is below it. A vertical blue line, labeled g at its bottom end, passes through the center of the hyperbola. A red line segment connects point F (located on the g line) to point H . A purple line segment connects point M to the center. Red dots along the right branch of the hyperbola represent the locus of points where the absolute difference of the distances to the two foci is constant.

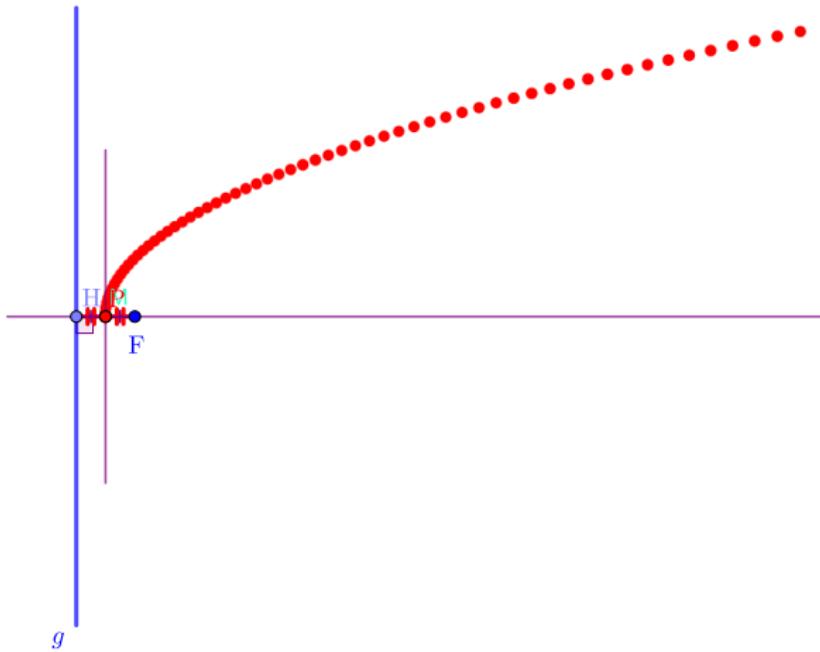
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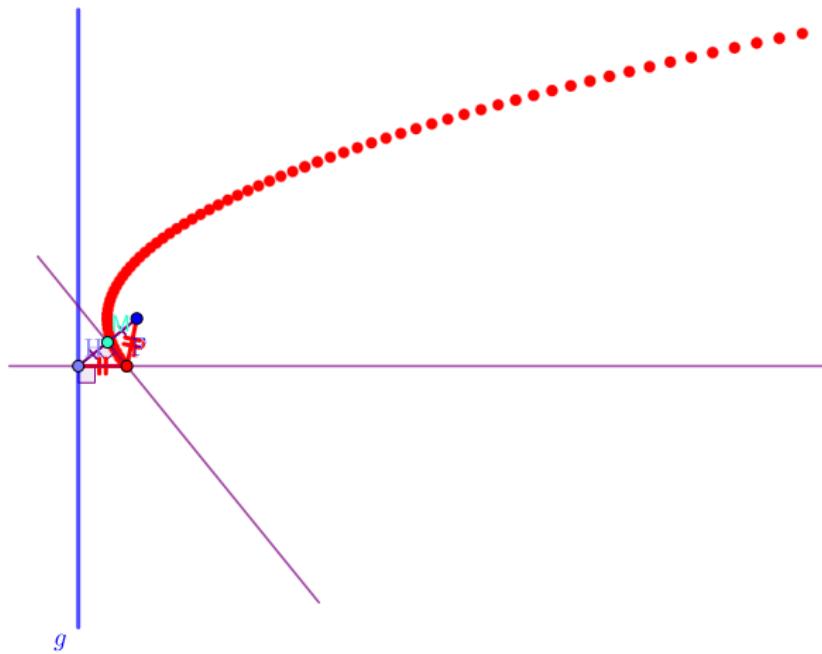
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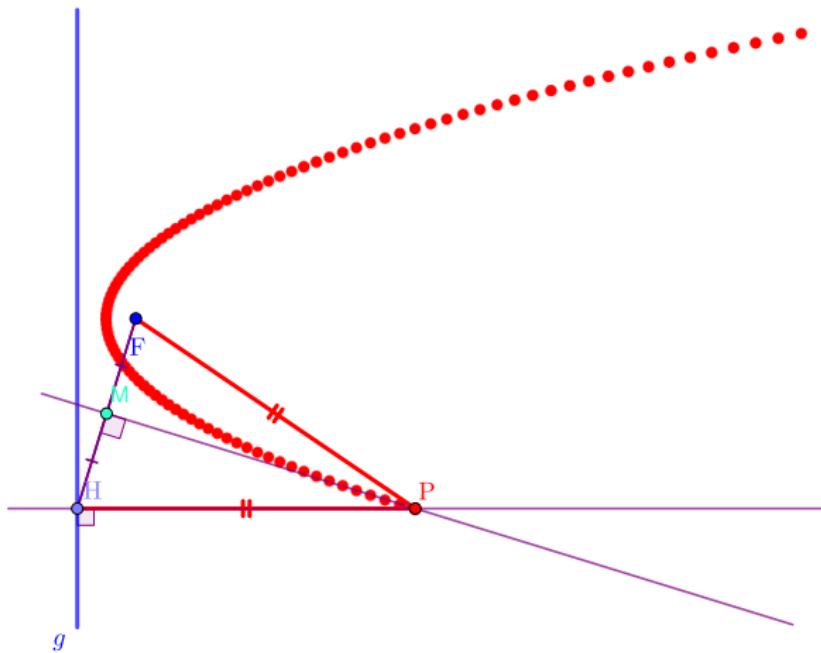
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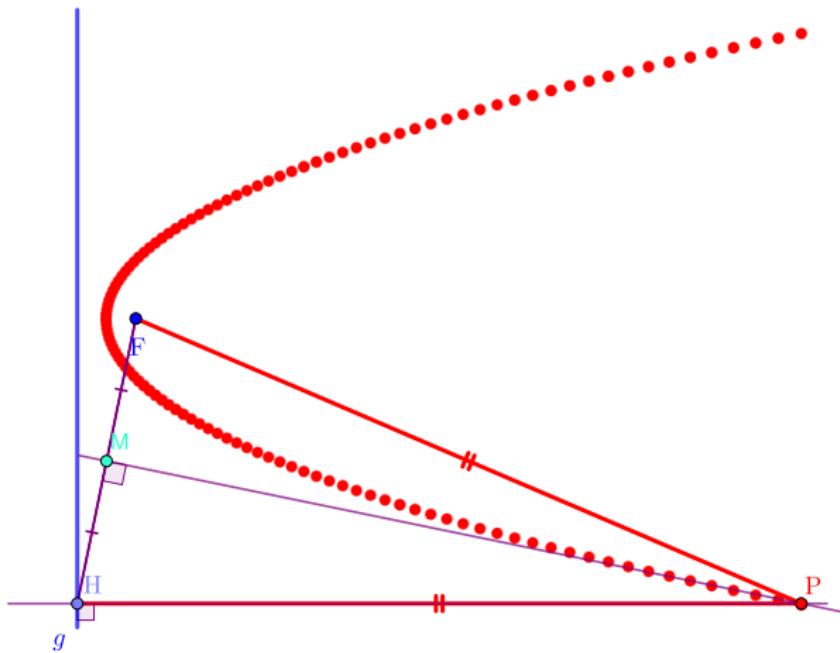
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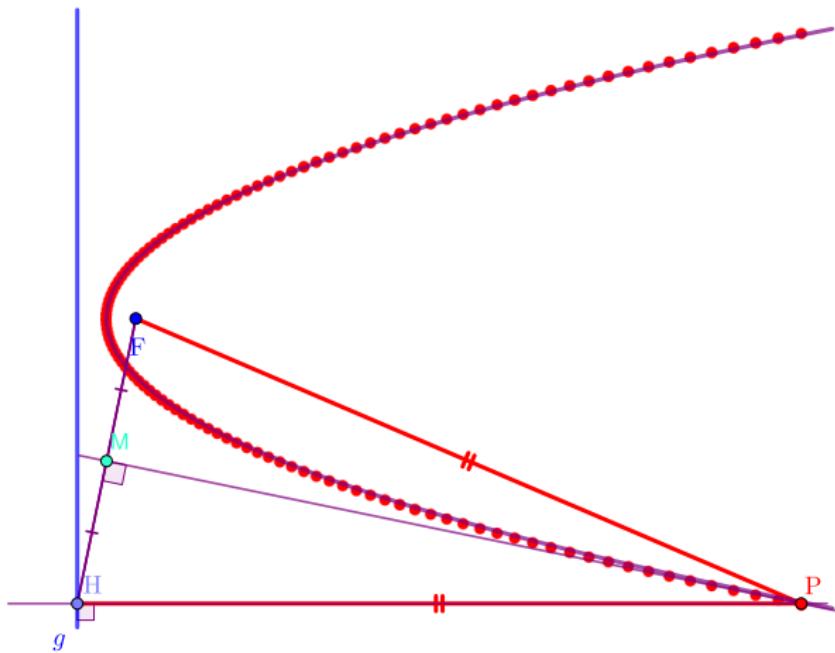
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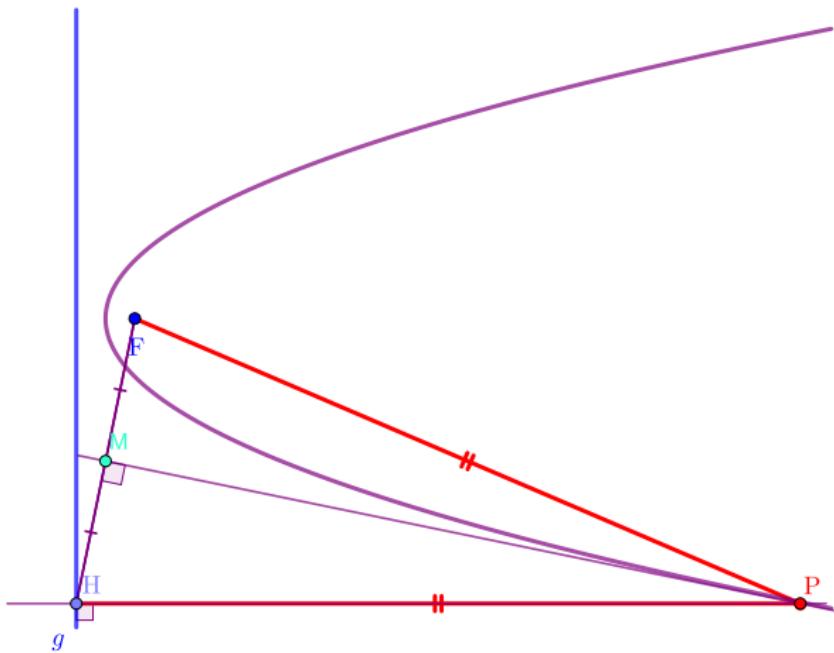
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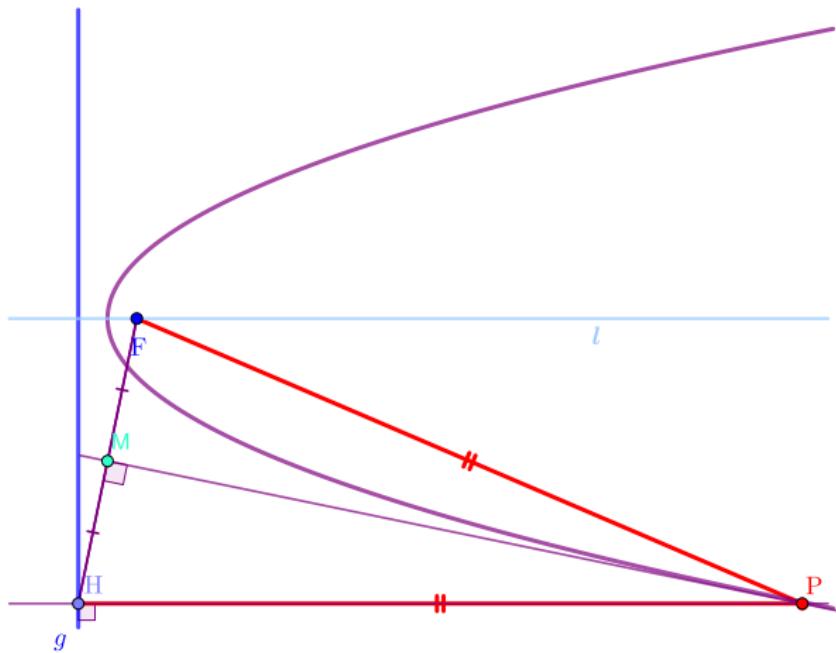
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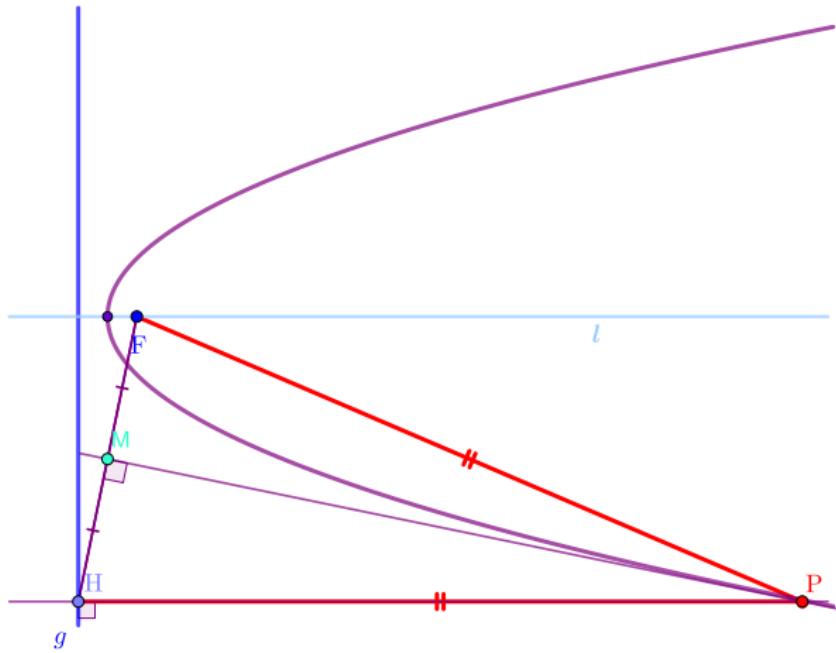
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Github:

<https://min7014.github.io/math20220123001.html>

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and you can see a picture moving.