

DNL MATH

HOW TO DRAW AN ELLIPSE

HOW TO DRAW A PARABOLA

HOW TO DRAW A CARDIOID

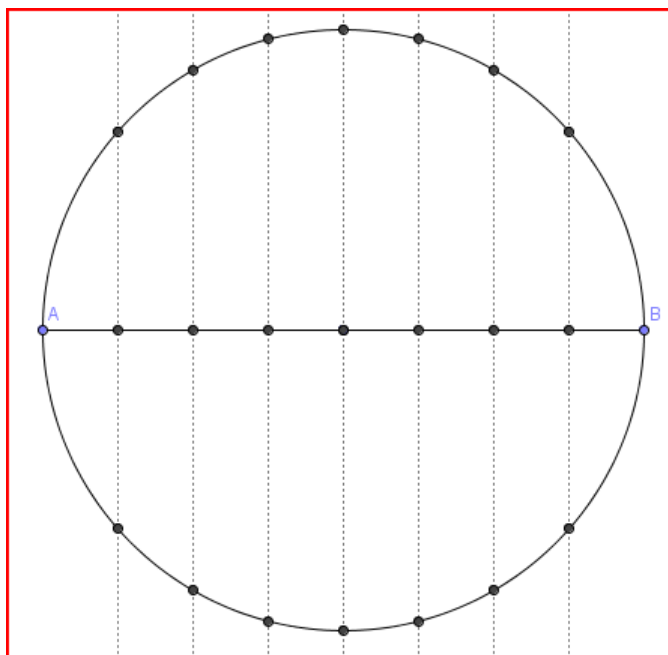
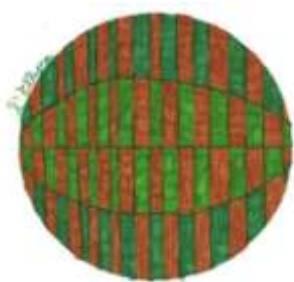
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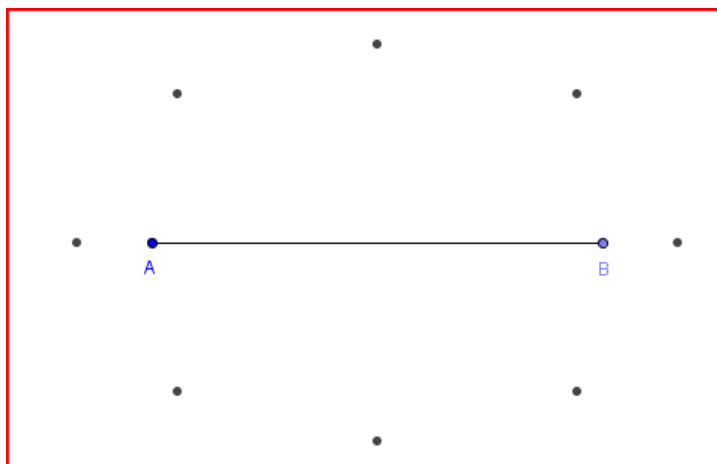
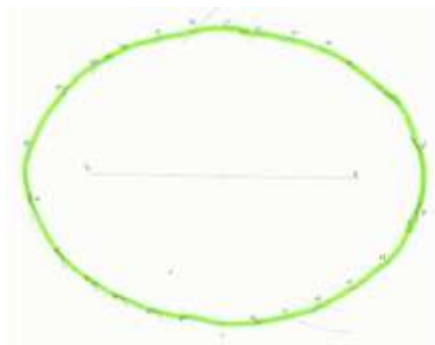
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How to draw an ellipse

Mark a point M on diameter [AB]. Draw the line perpendicular to [AB] passing by point M. This line cuts the circle in two points P and R. Place points in the middles of segments [MP] and [MR]. Do it again and again with various points M placed regularly on the diameter. All together, the points situated in the various middles form an ellipse that you can now draw.

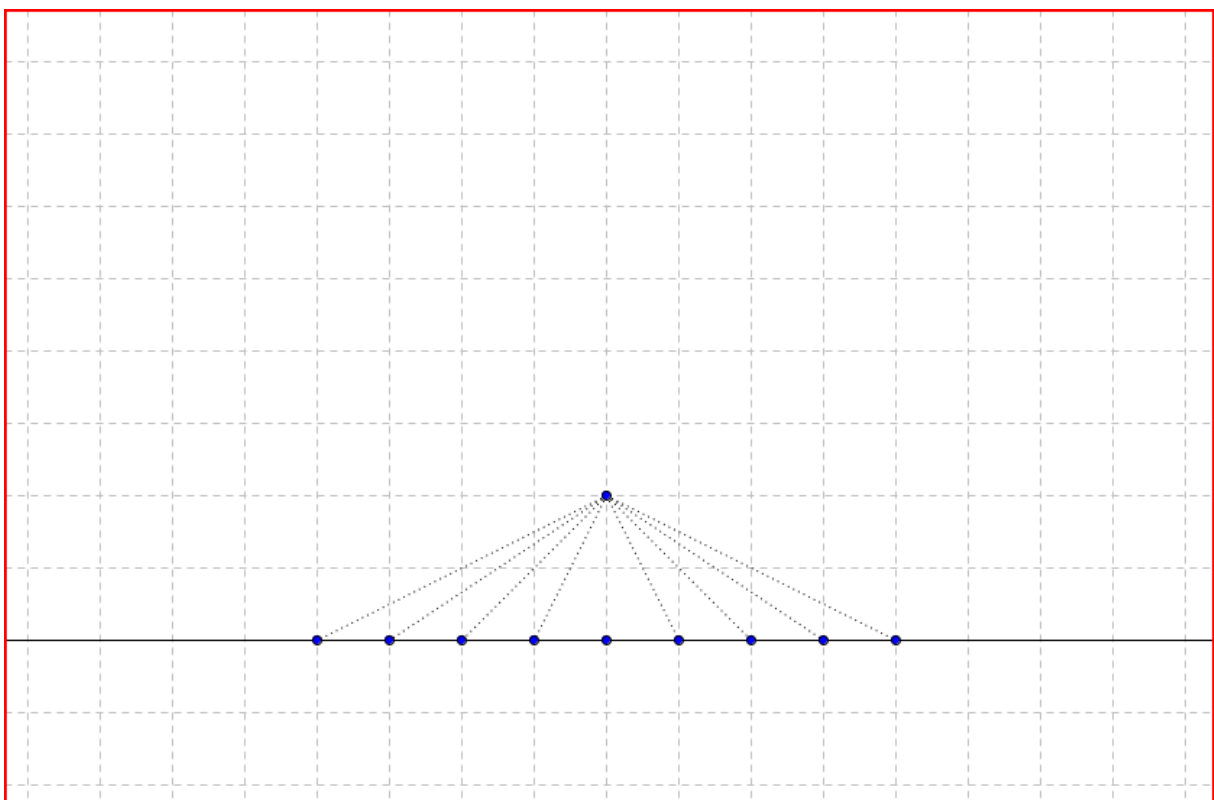
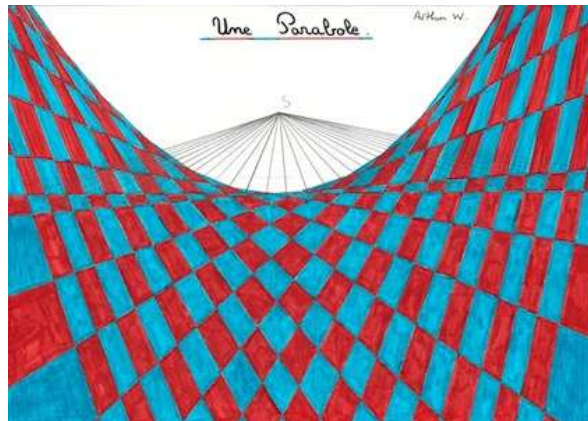
**How to draw an ellipse**

Place point M so that by adding MA to MB you get 8 cm. Do it again and again with various points M. All together these points M form an ellipse that you can now draw.



How to draw a parabola

Draw line (d) and point S outside line (d). On line (d) place point A. Draw segment [SA]. Draw the line perpendicular to [SA] passing by point A. Do it again and again with various points A placed regularly on line (d). All together the perpendiculars form a parabola.



How to draw a cardioid

Point O is the centre of a circle.

Mark a point S on this circle. Mark a point A on this circle and draw segment [OA]. Draw line (d) perpendicular to segment [OA] passing by A. Draw line (d') perpendicular to line (d) passing by S. Line (d) cuts line (d') in point M.

Do it again and again with various points A regularly placed on the circle. All together points M form a cardioid you will draw.

