



1. Use the diagram to plot points which are equidistant from the line  $x = 1$  and the point  $(-1, 0)$ .  
You should have thirteen dots.
2. The thirteen dots that you plotted are part of a parabola.  
Sketch the graph of the parabola in your diagram.
3. Give the coordinates of the focus of the parabola.
4. Give the equation of the directrix of the parabola.
5. Find the equation of the parabola.