

# CONICS HOMEWORK – ALL THE POINTS EQUIDISTANT FROM A POINT AND A LINE\*

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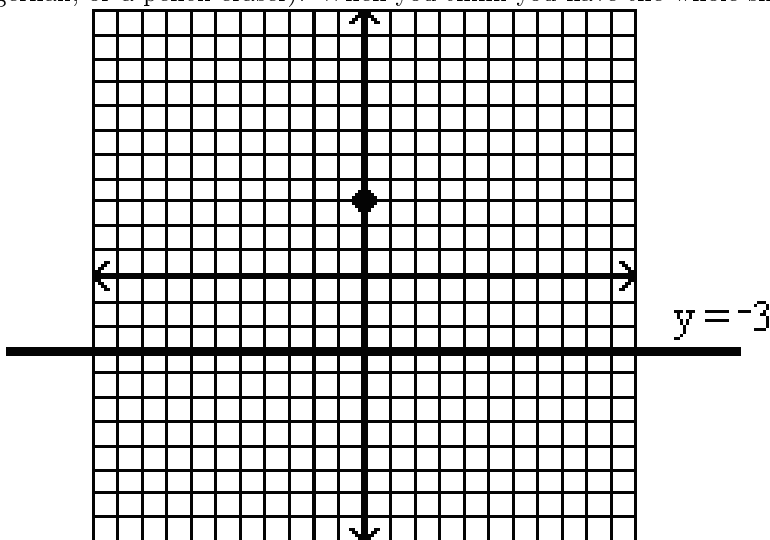
## Abstract

This module provides practice problems to finding all the points equidistant from a point and a line.

On the drawing below is the point  $(0,3)$  and the line  $(y = -3)$ . What I want you to do is to find all the points that are the **same distance** from  $(0,3)$  that they are from the line  $(y = -3)$ .

One of the points is very obvious. You can get two more of them, exactly, with a bit of thought.

After that you have to start playing around. Feel free to use some sort of measuring device (such as your fingernail, or a pencil eraser). When you think you have the whole shape, call me and let me look.



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