

THE LOCUS DEFINITION OF A PARABOLA COMMON CORE ALGEBRA II



The circle had a relatively easy locus definition, i.e. the collection of all points **equidistant** from a given point. Parabolas have a slightly more complex definition that we will explore in this lesson.

THE LOCUS DEFINITION OF A PARABOLA

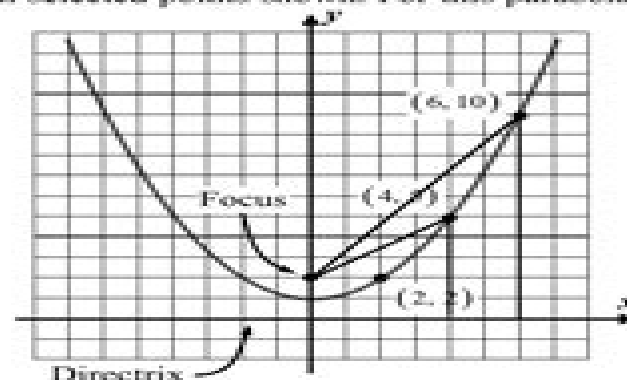
A parabola is the collection of all points **equidistant** from a fixed point (known as its **focus**) and a fixed line (known as its **directrix**).

Exercise #1: The parabola $y = \frac{1}{4}x^2 + 1$ is shown graphed below with selected points shown. For this parabola, its focus is the point $(0, 2)$ and its directrix is the x -axis.

- (a) How far is the turning point $(0, 1)$ from both the focus and directrix? How far is the point $(2, 2)$ from both?

The point $(0, 1)$ is one unit from both directrix and focus and the point $(2, 2)$ is two units away from both.

- (b) Use the distance formula to verify that the point $(4, 5)$ is the same distance away from the focus and directrix. Draw line segments from the focus and directrix to this point to visualize the distance. Repeat for the point $(6, 10)$



Clearly the point $(4, 5)$ is 5 units away from the directrix (the x -axis). To see how far it is from the focus at $(0, 2)$ we use the distance formula:

$$D = \sqrt{(4-0)^2 + (5-2)^2} = \sqrt{16+9} = \sqrt{25} = 5$$

Clearly the point $(6, 10)$ is 10 units away from the directrix (the x -axis). To see how far it is from the focus at $(0, 2)$ we use the distance formula:

$$D = \sqrt{(6-0)^2 + (10-2)^2} = \sqrt{36+64} = \sqrt{100} = 10$$

- (c) Use the distance formula to show that the equation of this parabola is $y = \frac{1}{4}x^2 + 1$ based on the locus definition of a parabola.

We will pick a generic point on the parabola and call it (x, y) . It is y -units away from the directrix (the x -axis) and we can set up its distance away from $(0, 2)$ as follows:

$$D = \sqrt{(x-0)^2 + (y-2)^2}$$

Due to the locus definition of a parabola, we can now set these two distances away to get the equation:

$$y = \sqrt{(x-0)^2 + (y-2)^2}$$

And now some algebraic manipulation:

$$\begin{aligned} y^2 &= (x-0)^2 + (y-2)^2 \\ y^2 &= x^2 + y^2 - 4y + 4 \\ 0 &= x^2 - 4y + 4 \\ 4y &= x^2 + 4 \\ y &= \frac{x^2 + 4}{4} = \frac{1}{4}x^2 + 1 \end{aligned}$$



Algebra 1 Common Core Answer Key

Reza Nazari, Ava Ross



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