TO STUDY THE NATURE OF THE PARABOLA y2=4ax a>0

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 MY OBSERVATIONS….

* Parabola is symmetric with respect to x axis
* Parabola opens to the right
* As the value of ‘ a’

TO STUDY THE NATURE OF THE PARABOLA y2=-4ax a>0

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MY OBSERVATIONS……

* Parabola is symmetric with respect to x axis
* Parabola opens to the left
* As the value of a increases the parabola widens.

Comparison of y2=4ax , and of y2=-4ax a > 0



MY OBSERVATIONS…..

* If the equation has a y2 term, parabola is symmetric with respect to x axis
* Parabola opens to the left if the coefficient of x is negative and it opens to the right if the coefficient of x is positive.

TO STUDY THE NATURE OF THE PARABOLA x2=4ay, a>0

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MY OBSERVATIONS…..

* Parabola is symmetric with respect to Y axis
* Parabola opens upwards
* As a increases Parabola widens.

TO STUDY THE NATURE OF THE PARABOLA x2=-4ay, a>0

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MY OBSERVATIONS…..

* Parabola is symmetric with respect to Y axis
* Parabola open downwards
* As ‘a’ increases, parabola widens

Comparison of x2=4ay and of x2= -4ax a>0

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MY OBSERVATIONS…..

* If the equation has a x2 term, parabola is symmetric with respect to Y axis
* Parabola opens downwards if the coefficient of y is negative and it opens upwards if the coefficient of y is positive.

TO STUDY THE NATURE OF THE ELLIPSE



