

PARABOLAS

Learning Packet

Parabola Equations

Characteristics: $(x - h)^2 = 4p(y - k)$

$$y = \pm \frac{1}{4p}(x - h)^2 + k$$

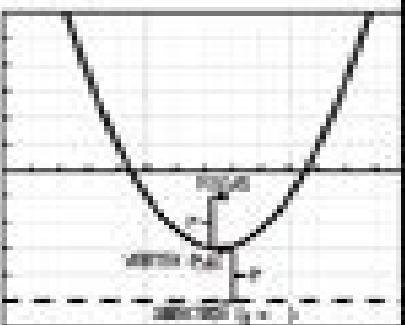
$$(y - k)^2 = 4p(x - h)$$

$$x = \pm \frac{1}{4p}(y - k)^2 + h$$

Vertex	(h, k)
Axis of Symmetry	$x = h$

Focus & Directrix (if positive)	$(h, k + p)$ \rightarrow Open up
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Focus & Directrix (if negative)	$(h, k - p)$ \rightarrow Open down
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VERTEX PARABOLAS

VERTEX FORM: $(x - h)^2 = 4p(y - k)$

STANDARD FORM: $y = ax^2 + bx + c$

PARABOLA PROBLEMS: PARABOLAS

With a partner, solve the following problems. Partner A will solve the problems in "Partner A Problems". Partner B will solve the problems in "Partner B Problems". When you are done, you are going to check each other's work.

PARTNER A PROBLEMS:

Write the following equation in standard form:

$$y = \frac{1}{2}(x - 3)^2 + 1$$

1. Determine the vertex, focus, and directrix of the parabola $y = \frac{1}{2}(x - 3)^2 + 1$.

2. Determine the vertex, focus, and directrix of the parabola $y = \frac{1}{2}(x - 3)^2 - 1$.

3. Determine the vertex, focus, and directrix of the parabola $y = \frac{1}{2}(x - 3)^2 - 1$.

4. Determine the vertex, focus, and directrix of the parabola $y = \frac{1}{2}(x - 3)^2 - 1$.

PARTNER B PROBLEMS:

Mastering Parabolas

Learning Objective: By the end of the packet, you will be able to:

— Determine the focus, directrix, vertex and axis of symmetry given the equation of a parabola

DEFINITION: The initial vertex of a parabola is the vertex. The focus is the point located in the graph shown below.

A	B	C	D	E	F
A	B	C	D	E	F
E	A	B	C	D	F
I	B	C	D	E	A
E	A	B	C	D	F
I	B	C	D	E	A
D	E	F	A	B	C
A	B	C	D	E	F
E	A	B	C	D	F
I	B	C	D	E	A
D	E	F	A	B	C
A	B	C	D	E	F

WORDS

- Parabola
- Quadratic
- Vertex
- Standard Form
- Focus
- Axis of Symmetry
- Vertex Form
- Standard Form
- Parabola

NOTES & PRACTICE

Absolute
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Math

Learn. Master. Improve.

Algebra 2 Skill Practice Parabolas

CL Gary

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