

Summary

The transformed parabola $y = a(x - h)^2 + k$ is known as vertex form.

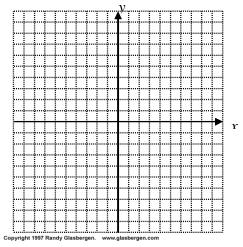
- a represents the _____ and ____
- *k* represents the _____
- h represents the _____
- the coordinates of the vertex of the parabola are ____



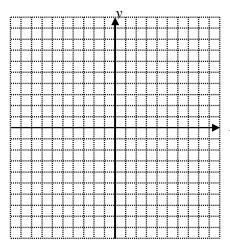
Sketching Vertex Form: $y = -4(x-3)^2 + 5$

- 1.
- 2.

step 1



step 2





"Algebra class will be important to you later in life because there's going to be a test six weeks from now."



For each of the following quadratic relations in vertex form, (i) state the transformations, and (ii) graph the parabola.

| | $y = -3(x-2)^2 - 1$ | $y = \frac{1}{2}(x+3)^2 + 1$ |
|---------------------|---------------------|------------------------------|
| (I) TRANSFORMATIONS | | |
| (II) GRAPH | x | x |



"If you think I do a good job teaching quadratic equations, like me on Facebook."

