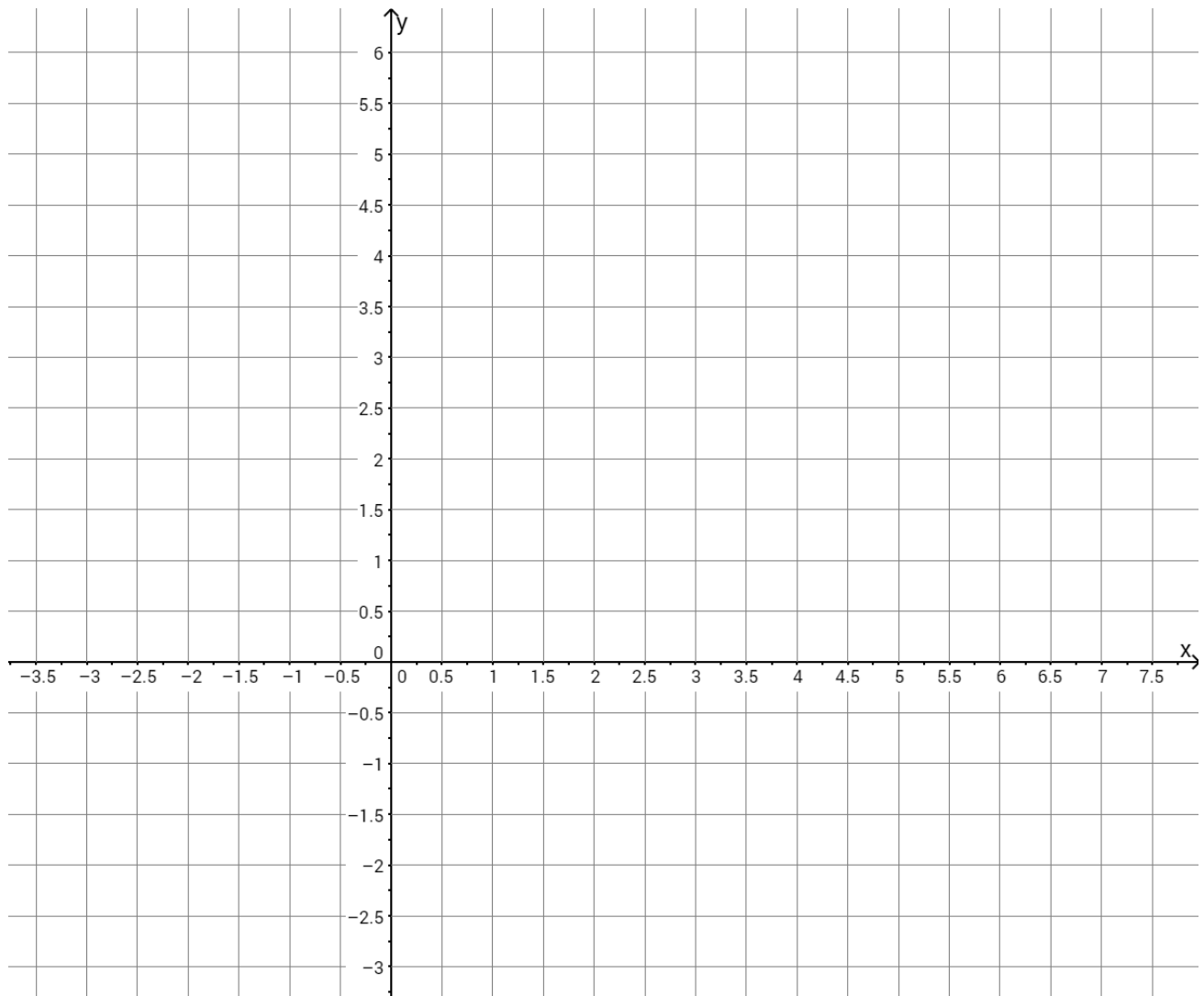


$$y = x^2 - 4x + 4$$

1. Your goal is to find geometric information from an equation of a parabola. The equation above is not in vertex form. Re-express the equation in vertex form so that you can find the  $p$ -value and the vertex  $(h, k)$  of the parabola.
2. Use the geometric information from the equation to graph the parabola. Make sure to list the coordinates of the points that you plot. Include the focus and directrix on your graph.



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