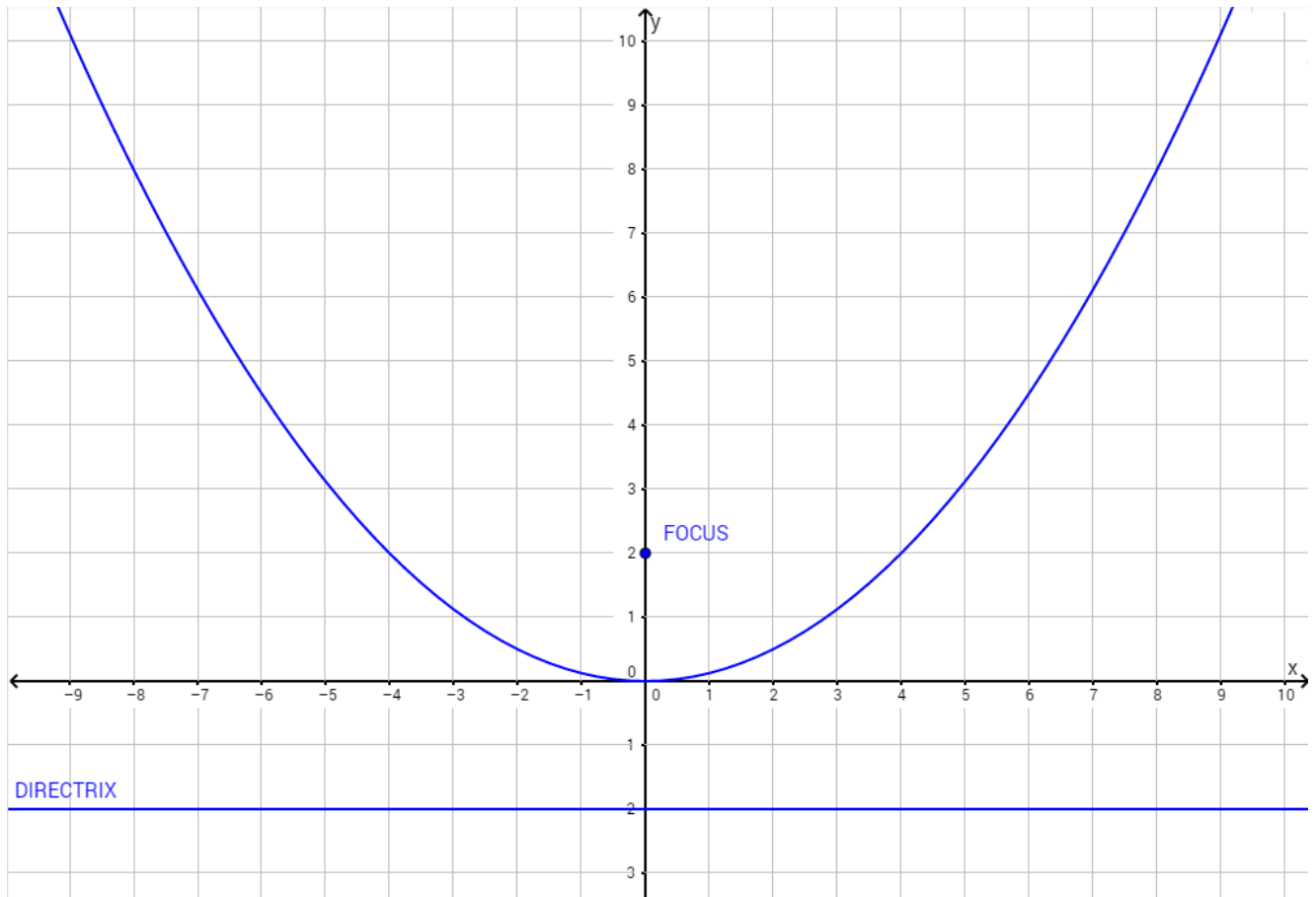


1. The blue parabola below has a focus at $(0,2)$. Use the definition of a parabola and the Pythagorean Theorem to find the general equation for the blue parabola. Show your work on the graph below.
2. On your diagram, label your distances and show how you determined those distances.



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