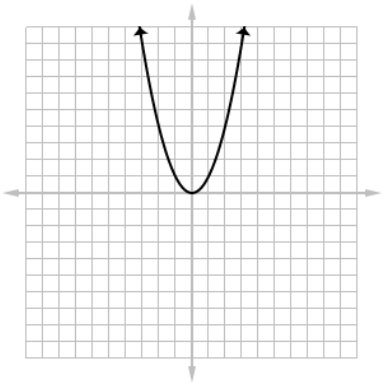
HE SAID/SHE SAID Quadratic Attributes



Given: $f(x) = a(x-h)^2 + k$is the vertex form of a parabola. If $a < 0$, $h > 0$, $and\, k < 0$, then which of the following choices are true? Mark the statements true or false.

_____ The vertex of $f(x)$ is in quadrant 2

_____ The vertex of $f(x)$ is in quadrant 4

_____ $f(x)$ has no x-intercepts

_____ $f(x)$ has no y-intercepts

Write down two other valid conclusions:

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Also, _____ told me this:

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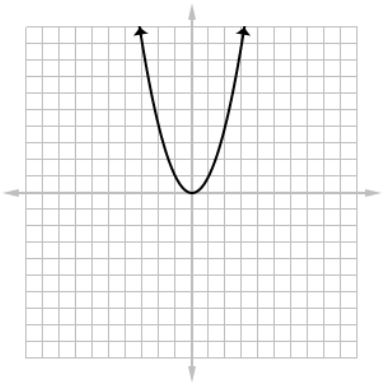
_____



When $y = x^2 - 2x + 4$ is written in the form , $y = (x-1)^2 + 3$which properties of the graph are more easily identified?

_____ Axis of Symmetry

_____ Maximum

_____ Minimum

_____ Zeros

_____ Y - intercept

Write down two other valid statements about this equation:

_____

_____

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Also, _____ told me this:

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_____