Six different quadratic functions are shown below. Your job is to pick which of the 6 quadratic functions matches what the question is asking. Note: NOT all six may be used and you may have repeat choices.


1. Which of the six quadratic functions has the highest vertex (highest y-value)? Show your work.

How will you justify your answer?

| $\underline{\text { Choice } \mathbf{A}}$ | $\underline{\underline{\text { Choice B }}}$ | $\underline{\underline{\text { Choice C }}}$ | $\underline{\underline{\text { Choice D }}}$ | $\underline{\underline{\text { Choice E }}}$ | $\underline{ }$ |
| :--- | :--- | :--- | :--- | :--- | :--- |

2. Which of the six quadratic functions has $x$-intercepts who are closest together on the x-axis? Show your work. How will you justify your answer?

| Choice A | Choice B | $\underline{\underline{\text { Choice } \mathrm{C}}}$ | Choice D | Choice E | Choice F |
| :--- | :--- | :--- | :--- | :--- | :--- |

3. Which of the six quadratic functions has the lowest y-intercept? Show your work. How will you justify your answer?

| Choice A | Choice B | Choice C | Choice D | Choice E | Choice F |
| :---: | :---: | :---: | :---: | :---: | :---: |

