WARMUP 18 MAY

For the following quadratic function:

$$f(x) = \frac{1}{2}x^2 - 2x - 4$$

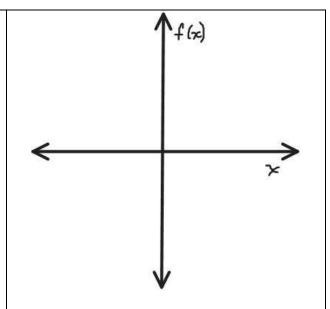
- a. Make a representative sketch of the function. Significant points should be in correct quadrants.
- b. State the Domain and the Range

$$\{ \underline{\hspace{1cm}} < f(x) < \underline{\hspace{1cm}} \}$$

c. Indicate on the sketch and state the following.

Vertex: (_____, ____)

Axis of Symmetry: x = _____



d. Indicate on the sketch and state:

y – intercept: (____, ____)

'zeros' [x-intercept(s)] if any

(____, __); (____, __)

e. State the minimum value of the function:

f. solve for x:

$$5 = \frac{1}{2}x^2 - 2x - 4$$

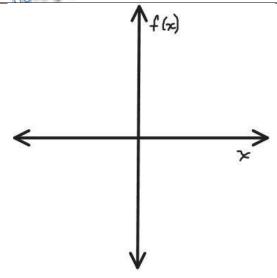
$$f(x) = 100 * 2^x$$

- a. Make a representative sketch of the function. Significant points should be in correct quadrants.
- b. State the Domain and the Range

$$\{ \underline{\hspace{1cm}} < f(x) < \underline{\hspace{1cm}} \}$$

c. Indicate on the sketch and state the following.

_



d. Indicate on the sketch and state:

'zeros' [x-intercept(s)] if any

- e. state the minimum or maximum value of the function:
- f. solve for x:

$$420 = 100 * 2^{x}$$