

[] Fill in the blanks. Use your calculator's graphing function to graph the function  $f(x) = 4x + 2x^2 - x^5$ .

[a] The graph of  $f$  has a relative maximum at  $x = \underline{1.1445}$   $\left(\frac{1}{2}\right)$  **Your answer must be rounded to 4 decimal places.**

[b] The graph of  $f$  has a relative minimum at  $x = \underline{-0.71}$   $\left(\frac{1}{2}\right)$  **Your answer must be rounded to 4 decimal places.**

[] Find the equation of the function if the graph of  $f(x) = \sqrt{x}$  is reflected over the  $y$ -axis, then shifted 3 units down, then shifted 2 units left.

$$f(-(x+2)) - 3 = \sqrt{-x-2} - 3$$

ANSWER:

$$\underline{\sqrt{-x-2} - 3}$$

$\left(\frac{2}{2}\right)$