

Use the first-derivative test for  $f(x)$ . For each function below, complete each of the following.

- Determine all critical numbers.
- Determine intervals where the function is increasing/decreasing. Justify.
- Determine where the function has relative (local) extrema. Justify each. Then find the value of each extrema.
- Determine intervals where the function is concave up/concave down. Justify.
- Determine where the function has a point or points of inflection. Justify.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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

$$x = \frac{4 \pm \sqrt{32}}{2} = \frac{4 \pm 4\sqrt{2}}{2} = 2 \pm 2\sqrt{2}$$

$f$  is inc on  $(-\infty, 2-2\sqrt{2})$  and  $(2+2\sqrt{2}, \infty)$  because  $y' > 0$   
 $f$  is dec on  $(2-2\sqrt{2}, 2+2\sqrt{2})$  because  $y' < 0$

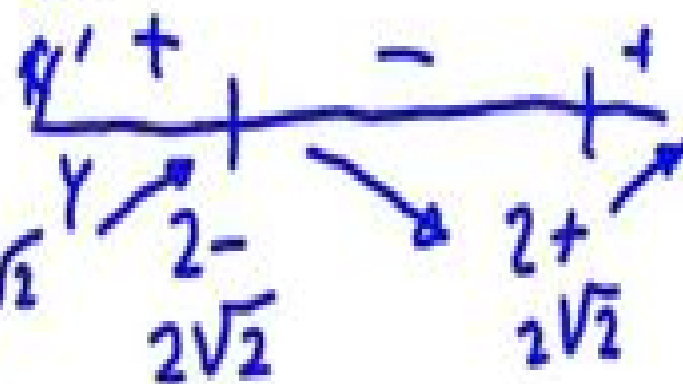
$$2. y = x^3 - 6x^2 - 12x$$

$$y' = 3x^2 - 12x - 12$$

$$y' = 3(x^2 - 4x - 4)$$

$$0 = 3(x^2 - 4x - 4)$$

$$0 =$$



# Function Analysis Homework Answers

**VM Jensen**



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