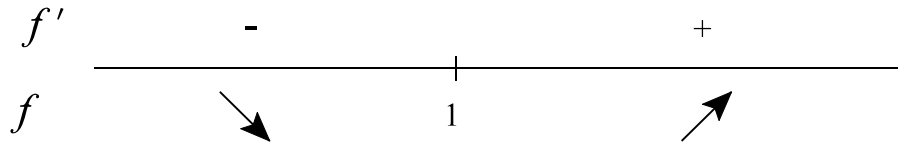


$$f(x) = x^2 - 2x + 3$$

- a. Domain = $\mathbb{R}$
- b. Intercepts (0,3), no x-intercepts
- c. $f'(x) = 2x - 2 \Rightarrow$ C.N. $x = 1$

d.



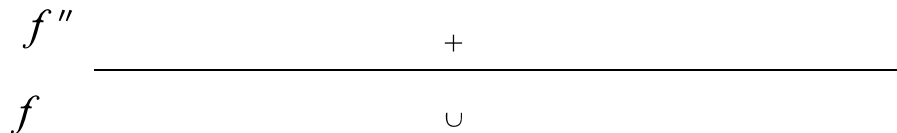
f is decreasing on $(-\infty, 1)$

f is increasing on $(1, \infty)$

- e. $P(1,2)$ is a relative minimum on the graph

- f. $f''(x) = 2 \Rightarrow$ no 2nd C.N.

g.



f is concave up on $\mathbb{R}$

- h. No inflection points

- i. j.

-4, 27.

-3, 18.

-2, 11.

-1, 6.

0, 3.

1, 2.

2, 3.

3, 6.

4, 11.

