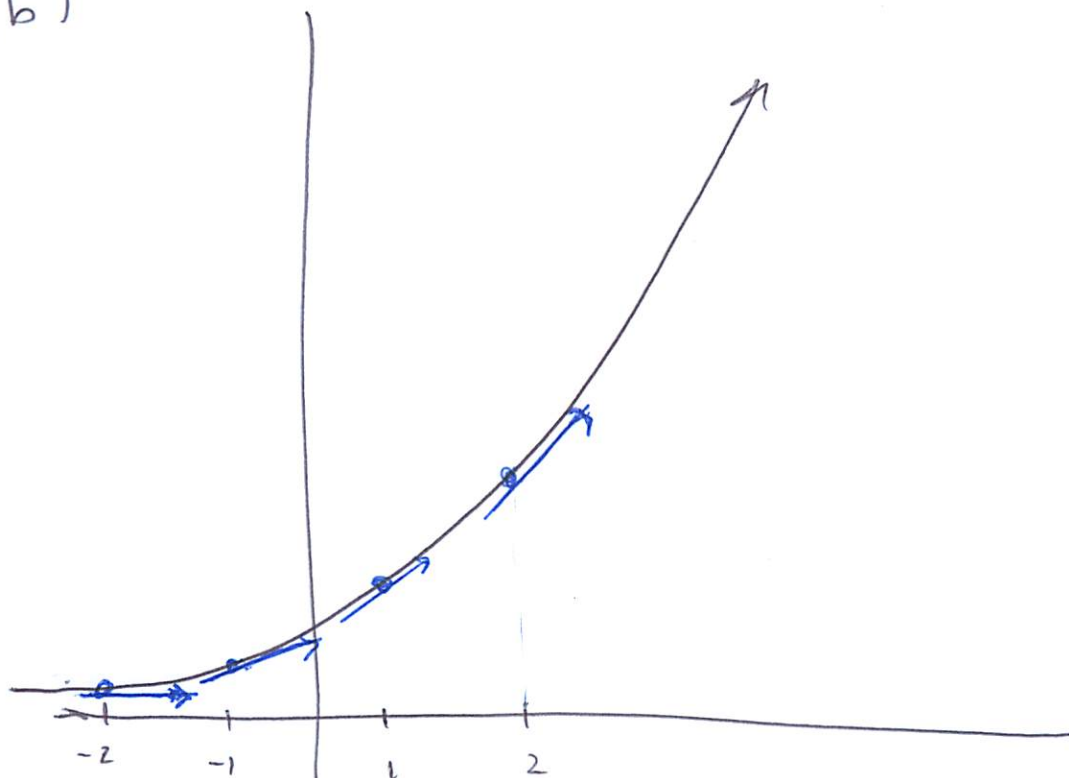


Solution for #1

(a) Because $f(x)$ is increasing at every point, we have $f'(x) \geq 0$ for each point.

(b)



(c) The slope is getting steeper (more positive).

(d) Because $f'(x)$ is the slope of the tangent line and the slope is getting bigger as we read from left to right, $f'(x)$ is increasing.

(e) Because $f'(x)$ is increasing, its derivative is greater than or equal to zero.

Therefore: $f''(x) \geq 0$.