

HW#3 Due Jan 25, 2022

**HW** Find the 2<sup>nd</sup>-order derivative of  $y = f(x) = 10 + \sqrt{x}$  and fill in the table:

Point	$x$	$y$	$f'(x)$	$f''(x)$
	0	10		
A	1	11		
B	2	11.414		
C	3	11.732		

Plot the graph of  $y$  and  $f'(x)$ . Is  $f'(x)$  linear?