

HW #1 Due Thursday 28 January 2021

HW Given $y = 10 + \sqrt{x}$, *only positive part*

- a) Find the derivative $f'(x)$.
- b) Fill in the table

Point	X	Y	$f'(x)$
	0	10	⋮
A	1	11	⋮
B	2	14	⋮
C	3	19	⋮

- c) Does the slope increase as x increases? *2*
- d) Approximate the change in Y when $\Delta x = 0.2$ at $x_1 = 3$. Is the approximation under- or over-estimate?