

Name:

Section 2.2 - examples

Math 151 – Spring 2019

Section 2.2

1. Find approximate values for $f'(5)$ and $f'(15)$.

x	0	5	10	15	20
$f(x)$	100	70	55	46	40

$$f'(5) \approx \frac{-6.0 + -3.0}{2} = -4.5$$

$$f'(15) \approx \frac{-1.8 + -1.2}{2} = -1.5$$

2. Match each property (a) – (d) with one or more of graphs (I)–(IV) of functions.

(a) $f'(x) = 1$ for all $0 \leq x \leq 4$. III

(b) $f'(x) > 0$ for all $0 \leq x \leq 4$. III

(c) $f'(2) = 1$ III & IV

(d) $f'(1) = 2$ II & IV

