

**PS#3: The derivative! - Answer key quick ref**

1. (1.3.4.10)

(a) (graph)

(b)

$$AV_{[-3,-1]} \approx 1.15$$

$$AV_{[0,2]} \approx -0.4$$

(c)

$$f'(-3) \approx 3$$

$$f'(0) \approx -1/2$$

2. (1.4.4.11)

(a)  $g'(x) = 2x - 1$ .

(b) (graph)

(c)  $p'(x) = 10x - 4$ .

(d) (thing about constants)

3. (1.4.4.12) (A bunch of graphs.)

