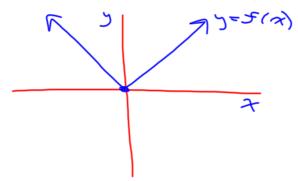
Q146) Better answer:

L'(2) = - 1.6 means, 2 s. after the ball was kicked, the velocity of the ball at that instant was like m/s [down].

Well 5'(0) = lim 5(0+4)-5(0) = lim h/h/-0 = lim /h/ = 0

Also Note:



THEN

- · lim f(x) = 0
- . F'(0) does NOT exist
- 1.e. lim the does NOT exist.

Sinu f(a)= 0 and 5 (a)=6

Then,

$$\lim_{h\to 0} \frac{f(a+h)}{2h} = \frac{1}{2} \lim_{h\to 0} \frac{f(a+h)}{h} - \frac{f(a)}{h}$$

$$= \frac{1}{2} f'(a)$$

$$= \frac{1}{2} (6)$$

$$= \frac{1}{3}$$