Green Sheet

right hand difference quotient (rhdq) #9 on wkst

$[1, 1.01]$

$32 \quad 31.8384$

$$\frac{31.8384 - 32}{1.01 - 1}$$

left hand difference quotient (lhdq) #10 on wkst

$[1.99, 2]$

$-47.84 \frac{ft.}{sec.} \quad -47.984 \quad -47.9984$

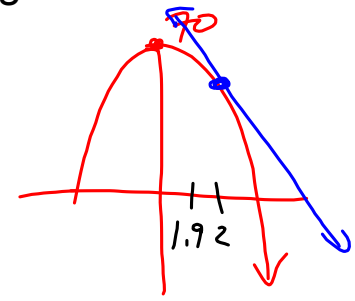
$-48 \frac{ft.}{sec.}$

symmetric difference quotient (sdq)

$[1.9, 2.1]$

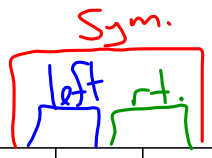
A ball is dropped from the top of a 70 foot building. Its height above ground after t seconds is $70 - 16t^2$

How fast is the ball falling after 2 seconds?



$-64 \frac{ft}{sec.}$

The table shows the coordinates of a moving particle. Estimate the velocity at t = 3.



t sec	0	.5	1	1.5	2	2.5	3	3.5	4
s (ft)	3.5	-4	-8.5	-10	-8.5	-4	3.5	14	27.5

Sym: $\frac{14-(-4)}{3.5-2.5} = 18 \frac{ft.}{sec.}$