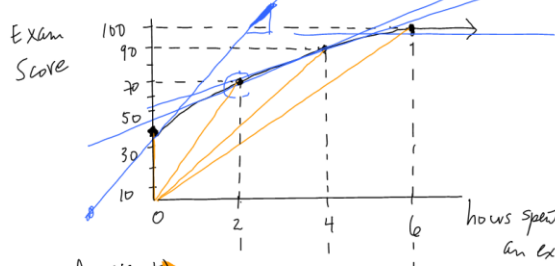


2, 3, 4
 $\frac{2+3+4}{3}$

Points Per Hour
 At 2 hours
 Average Points per hour = $\frac{70}{2} = 35$

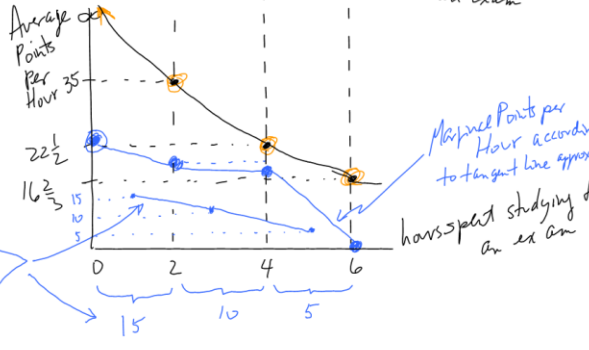
Marginal points per hour according to the 2-hour-intervals approximation. This approximation is almost certainly worse than the tangent line approximation, and the two approximations aren't very close in this example.



Exam Score vs. Hours Spent Studying

Marginal # Hours	Avg. Points Per Hour
0	$\frac{0}{0} = +\infty$
2	$35 = \frac{70}{2}$
4	$22\frac{1}{2} = \frac{90}{4}$
6	$16\frac{2}{3} = \frac{100}{6}$

$(70-0)/(2-0) = \frac{70}{2} = 35$
 $\frac{90-70}{4-2} = \frac{20}{2} = 10$
 $\frac{100-90}{6-4} = \frac{10}{2} = 5$



Averages: Don't Draw Tangent Lines. Instead, draw lines from the origin to the function. Then find the slope of the line you drew.