

Homework Assignment for Week 06

1. Section 3.5: problems 17, 33(a), 34(a), 49 (Hint: what is $\left. \frac{d \sin \theta}{d \theta} \right|_{\theta=c}$?) , 57, 58.
2. Section 3.6: Do as many as time permits from problems 51, 53, \dots , 77.
3. Assume $g(2) = 3$, $g'(2) = 0.1$, $f'(2) = 3$, $f'(3) = 4$ and $f'(4) = 5$. What is $\frac{d}{dx} f(g(x))$ at $x = 2$?
4. Section 3.7: problems 27, 31, 48, 51(a).