

Math 124 Worksheet #7
October 23, 2007

1. Find the following.

(a) If $g(t) = (2 + 3t + 5t^3)^7 \cos t$, what is $g'(0)$?

(b) $\frac{d}{dr}(5^{\csc(\pi r)} + 8e^{\sqrt{r}}) = ?$

(c) If $y = \sec(2e^{3t-t^2} + 5)$, what is $\frac{dy}{dt}$?

2. Make up your own fun composition and see if you can differentiate it. It's so fun!