

Name:

Sec. 4.9 – Antiderivatives

Math 251

1. Find $f(x)$ if $f''(x) = 20x^3 - 12x^2 + 6x$ given that $f'(1) = 1$ and $f(1) = 0$

2. A particle moves with acceleration $a(t) = 3 \cos t - 2 \sin t$ and $s(0) = 0$, $v(0) = 4$. Find the displacement function.