# MATH 251: Practice 6 

June 3, 2015

Name: $\qquad$
Consider the curve $\vec{r}(t)=\left\langle t, t^{2}, \frac{2}{3} t^{3}\right\rangle$, a modified "twisted cubic."

- Find the length of the curve between $t=0$ and $t=2$.
- Compute the curvature of $\vec{r}$ at $t=1$.

