MATH 261 Quiz 5 Name: .

Class time:

Show all work. 5 points each.

1) Find the curvature of $\mathbf{r}(t) = \langle t^2, t, 0 \rangle$

2)Find the equation of the normal plane for $\mathbf{r}(t) = \langle t^2, \frac{2}{3}t^3, t \rangle$ at the point $(1, \frac{2}{3}, 1)$