## Quiz 3 - Math 224

Print Name:

1) Find $\frac{d y}{d x}$ at the point $(0,1)$ fr the equation $\cos \left(x y^{2}\right)=y-x$.
2) The position of a particle is given by $s(t)=t^{3}-6 t^{2}+9 t$ where $t$ is measured in seconds and $s$ in meters.
(a) Find the velocity and acceleration at time $t$.
(b) When is the particle at rest?
(c) When is the particle moving forward in the positive direction?
(d) When is the particle speeding up?
