Quiz #5

Name: _____

1. A particle moving along a line has position $s(t) = t^4 - 18t^2$ meters at time t seconds.

(2 points)   (a) At which times does the particle pass through the origin?

(4 points)   (b) At which times is the particle instantaneously motionless (zero velocity)?

(4 points)   2. Calculate y' and y'' for the following equation.

$$y = x^5 e^x$$