

**Quiz 5    Calculus 1    9/30/2002**

Each problem is worth 5 points. Show complete justification for full credit.

1. Differentiate  $y = \frac{\sin x}{x^2}$  .

2. Find an equation of the line tangent to the curve  $y = 3x + \cos x$  at the point  $(0, 1)$ .