QUIZ 10 - MATH 152 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 3 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find the points on the parametric curve $c(t) = (3t^2 - 2t, t^3 - 6t)$ where the tangent line has slope 3. Then, write parametric equations for the tangent lines at these points.

2. Find the length of the path traveled by the object moving on the parametric curve $c(t) = (3t, 4t^{3/2})$ in the time interval $0 \le t \le 1$.