Name\_\_\_\_

Section 0242

Answer all problems. There are 10 possible points.

1. Find each of the following:

1.1) (3 pts) 
$$\int \left(2x^3 - 2 + \frac{2}{x^4}\right) dx$$

1.2) (3pts) 
$$\int \left(\frac{1}{x} + e^{-x}\right) dx$$

2. (4 pts) Find an equation of the curves whose tangent line has a slope of  $f'(x) = -2x^{-3} + 2x$  given that (1,5) is on the curve