

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**To receive any credit for the following problems, you must show complete and accurate work. Use proper limit notation and give exact answers unless otherwise noted.**

1. Use the Fundamental Theorem of Calculus to determine the exact value of

$$\int_{-1}^5 (2x^5 - 7x^2 - 3x + 5) dx$$

2. Use the Fundamental Theorem of Calculus to determine the function whose slope is given by  $\sqrt{x^4 + 7}$  and passes through the point  $(-4, 2.3)$