

Name _____

Homework 21
Section 6.2

1. (3) Determine the general antiderivative, $F(x)$, for $f(x) = 5x^4 + 3x^2 + 6$.

2. (3) Find the indefinite integral $\int (t^6 - 6t + \pi) dt$.

3. (3) Determine $\int (3 + \sin x - e^x) dx$

4. (5) Determine the antiderivative, $G(x)$, of $g(x) = x^2 + 4x + 5$ for which $G(-3) = 8$.

5. (6) Compute $\int_1^2 2x^3 + x - 5 \, dx$