MAT 136 (Calculus I) Prof. Swift
In-class worksheet: The Indefinite Integral

1. Evaluate $\frac{d}{dx}[x^3 + 2x^2 + 3x + 4]$

2. Evaluate $\int 3x^2 + 4x + 3 \, dx$

3. Evaluate $\int x^5 + x^3 + x \, dx$

4. Evaluate $\frac{d}{dx}[x \sin(x)]$

5. Evaluate $\int \sin(x) + x \cos(x) \, dx$