

NAME: _____

CALCULUS – Chapter 4 Work Day

Complete each indefinite integral.

1. $\int -2 \, dx$

2. $\int x \, dx$

3. $\int 4x^3 \, dx$

4. $\int (2x^2 + 8x - 5) \, dx$

5. $\int \frac{3}{x^3} \, dx$

6. $\int (x + 1)^2 \, dx$

Complete each definite integral. Hint: Simplify before integrating.

7. $\int_0^4 \left(\frac{x+1}{\sqrt{x}}\right) dx$

8. $\int_{-1}^3 \frac{x^3 + 4}{x^2} dx$