

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

## INTEGRAL REVIEW

Evaluate each indefinite integral.

1)  $\int -24x^5 dx$

2)  $\int -3 dx$

3)  $\int -6x dx$

4)  $\int 12x^2 dx$

5)  $\int (-24x^5 - 10x) dx$

6)  $\int (-9x^2 + 10x) dx$

7)  $\int 4x^{-5} dx$

8)  $\int -2x^{-3} dx$

9)  $\int (-2x^{-3} + 20x^{-5}) dx$

10)  $\int (-4x^{-3} - 20x^{-5}) dx$

11)  $\int \left( -\frac{4}{x^3} - \frac{8}{x^5} \right) dx$

12)  $\int \left( \frac{15}{x^4} + \frac{8}{x^5} \right) dx$

Find the following definite integrals of each of the following problems between -1 and 2:

$$1) \int_{-1}^2 -24x^5 dx$$

$$2) \int_{-1}^2 -3 dx$$

$$3) \int_{-1}^2 -6x dx$$

$$4) \int_{-1}^2 12x^2 dx$$

$$5) \int_{-1}^2 (-24x^5 - 10x) dx$$

$$6) \int_{-1}^2 (-9x^2 + 10x) dx$$

$$7) \int_{-1}^2 4x^{-5} dx$$

$$8) \int_{-1}^2 -2x^{-3} dx$$