

Problem 20, Section 6.1

Calculate the indefinite integral $\int \frac{1}{3x^5} dx$.

Well,

$$\int \frac{1}{3x^5} dx = \frac{1}{3} \int x^{-5} dx = \frac{1}{3} \cdot \frac{x^{-4}}{-4} + c = -\frac{1}{12x^4} + c.$$