

Integrate each of the following by hand.

1. $\int x^n dx$

2. $\int 500 dx$

3. $\int x^3 dx$

4. $\int \sqrt{x} dx$

5. $\int \sqrt[3]{x} dx$

6. $\int x^{50} dx$

7. $\int x^{1/3} dx$

8. $\int x^{-7} dx$

9. $\int x^{-0.5} dx$

10. $\int \frac{1}{x^2} dx$