Chapter 3.1: Practicing the Power Rule

Calculus I

College of the Atlantic. Winter 2021

Take the derivative of the following functions:

1. $f(x) = 6$
2. $f(x) = 6x$
3. $f(x) = 6x + 60x$
4. $f(x) = x^6$
5. $f(x) = x^6 + 66$
6. $f(x) = x^{-6}$
7. $f(x) = -x^{-6}$
8. $f(x) = -x^6$
9. $f(x) = 6^x$
10. $f(x) = -x^{\frac{1}{6}}$
11. $f(x) = 6x^6$
12. $f(x) = \frac{x^6}{6}$
13. $f(x) = x^3 + 2x^{-3} - 3x^{-4}$
14. $f(x) = \frac{x^2-4+3x}{\sqrt{x}}$
15. $f(x) = x^\pi$