

Exercise1: $g(x) = 4^3 - 12x^3 + 3x^{40}$

Exercise2: $f(x) = 2x^{-1.1} + 25x^4 + e^4$

Exercise3. $f(x) = 8\sqrt[5]{x^3} + 4(\sqrt{x^3}) - \frac{2}{x}$

Exercise4. $g(t) = 5\sqrt[3]{t^4} + 2.2(\sqrt{t^5}) - \frac{1}{t^2}$

Exercise5. $h(t) = 5(e^{3t}) - 4 \ln x + \pi$

Exercise6. $f(x) = 5(2^x) - 3 \ln x + e^2$

Exercise7: $g(x) = \frac{2}{\sqrt[4]{x^3}} - \frac{x}{\sqrt[3]{x^2}}$

Exercise8: $f(x) = \frac{1}{\sqrt[5]{x}} - \sqrt{x} - 4x$

Exercise9. $f(x) = 3x^2(2x - 2.2x^{1.2})$

Exercise10. $f(x) = 2x^3(5x^2 - 7(\sqrt{x}))$

Exercise11. $f(x) = 4.2x^{\ln 2} + 2x^4 + e^3$

Exercise12. $g(x) = 3x^{\ln 5} + x^e + \pi^3$