

Worksheet 10/02/2024

1) Find the derivative of the given functions. Don't simplify your answer.

a) $f(t) = (t^3 + 2)(2t^2 + 3t - 7)$

b) $g(x) = \frac{x^2+2x-2}{x^2-1}$

c) $f(x) = \sqrt{x^3} + \sqrt[5]{x^7}$

d) $f(y) = \frac{y^3-y+1}{y^2}$

2) Find the equation of the tangent line and the normal line to the graph of function $f(x) = \frac{x-1}{x^2+1}$ at the point $(2, \frac{1}{5})$.