

- Show all your work for each problem; show enough work to fully justify your answer.
- Simplify all answers as far as possible.

(1) [Points: 20] Let $x = y^7 - 5y^3 - 3$. [NOTE: It should be $x = y^7 - 5y^3 + 3$.]

(a) Find dy/dx .

(b) Find the equation of the normal line at $(-1, 1)$.