Find the derivative (with respect to x) for each of the following. Do not simplify.

(1) 
$$x^2y^3 = \sqrt{2x-5} + \sin(8y+3)$$

(2) 
$$f(x) = \left(\frac{8x+3}{2x^2-3}\right)^5$$

(3) 
$$y = \sqrt[4]{(1-3x)^4 + x^4}$$