Use implicit differentiation to find the derivative of each equation below. Simplify answers as much as possible and leave no negative exponents.

$$\int_{1}^{5} y^5 + 4x^2y^2 + 5x^4 = 12$$

$$2\sqrt{y+x} = 3x^2$$

$$(4y^2-1)^3=(3x^2-x)^4$$

4) Find the equation of the tangent line to the implicit function $x^3 - 8xy + y^3 = 0$ at the point (4,4).

