Quiz #6

Please print your name:

Problem 1. (4 points) Compute the following derivatives.

[No need to show work.]

(a)
$$\frac{\mathrm{d}}{\mathrm{d}x}\ln(x^3+7) =$$

(b) $\frac{d}{dx} [x^4 \tan^{-1}(x)] =$	
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Problem 2. (6 points) Consider the curve $x^3 + 2y^3 = xy$.

[Show your work!]

- (a) Using implicit differentiation, determine $\frac{dy}{dx}$.
- (b) Determine the line tangent to the curve at the point (1, -1).