Quiz 7A

Name:

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Closed book/notes. No calculators allowed. Show all your work.

- 1. Consider the curve defined by the equation $x^2y^2 + 8\cos(x) = y^3$.
 - (a) Use implicit differentiation to find $\frac{dy}{dx}$.

$$y' = \frac{2xy^2 - 8\sin(x)}{3y^2 - 2x^2y}$$

(b) Find the equation of the tangent line to the curve at the point (0,2).

$$y'(0) = 0$$

 $y = 2$