TMATH 124 UH: Quiz 4

Show *all* your work (numerically, algebraically, or geometrically) for each and simplify. No credit is given without supporting work.

1. Find $\frac{dy}{dx}$ given: [2] (ImplicitWks #1b) $y \cos(x) = y^2$

[2] (WebHW12 #6) $y = \log_7(\sqrt{2x+7})$

[3] (LogWks #1) $y = x^{\sqrt{x}}$

- 2. (§3.5 #26) Consider sin(x + y) = 2x 2y whose graph is provided on the right.
 - (a) [1] Draw the equation of the line that is tangent to f(x) when $x = \pi$.
 - (b) [2] Find the equation of the line you drew in part a.

