MATH 210 – Differential Equations

Section Question: 2.2

Name: Ryan Coyne

Date:

1. Solve $3xy' = 5x^3 \sec y$ $3x \frac{dy}{dy} z 5x^3 \sec y$ $5\cos y dy z 5 x^2 dx$ $\sin y = \frac{5}{4}x^3 + C$ $y = \sin^{-1}(\frac{5}{4}x^3 + C)$

Implicit Solution: Siny = $\frac{5}{9}$ x 3+C

Explicit Solution: $y = s_1 n^{-1} \left(\frac{5}{9} x^3 + C \right)$