MATH 242 Video Worksheet Name_____

1.4

Separable Equations

Implicit Solution

Applications

$$\frac{dy}{dx} + 2xy^2 = 0$$

$$\frac{dy}{dx} = 2x\sec(y)$$

$$(x^2+1)\tan(y)y' = x$$

$$2y\frac{dy}{dx} = \frac{x}{\sqrt{x^2-16}}, y(5) = 2$$