MM2 – Chapter 9 – Section 1

Pre-Class Question:

Write out at least two questions from the proof that was done in the pre-class video.

Class Worksheet

Euler equation:

$$\frac{d}{dx}\left(\frac{\partial}{\partial y'}F\right) - \frac{\partial}{\partial y}F = 0$$

Find an equation for $y(x)$ when:

$$F(x, y, y') = \sqrt{1 + y'^2}$$

And

$$F(x, y, y') = \sqrt{x}\sqrt{1 + y'^2}$$