

Section 1.5

Linear first order equation

$$y' + y = 2, y(0) = 0$$

$$xy' + 5y = x^2, y(2) = 5$$

$$y' = (1 - y) \cos x, y(\pi) = 2$$

$$(x^2 + 4)y' + 3xy = x, y(0) = 1$$