$$DF := (x^{2} + 1) y(x) \frac{d}{dx} y(x) = x (1 + (y(x))^{2})$$

$$(x^{2} + 1) y(x) \frac{d}{dx} y(x) = x (1 + (y(x))^{2})$$

$$dsolve(DF);$$

$$y(x) = \sqrt{-C1} x^{2} + -C1 - 1, y(x) = -\sqrt{-C1} x^{2} + -C1 - 1$$

$$y := x \mapsto \sqrt{-C1} x^{2} + -C1 - 1$$

$$x \mapsto \sqrt{-C1} x^{2} + -C1 - 1$$

$$isolate(y(3) = 1, -C1)$$

$$-C1 = 1/5$$

$$isolate(y(3) = 3, -C1)$$

$$-C1 = 1$$

$$isolate(y(3) = -7, -C1)$$

 $_{-}C1 = 5$