1.1

#22

$$y = e^{-x^2}\int_0^x e^{t^2}dt + c_1 e^{-x^2}$$

$$y' = e^{-x^2}\cdot e^{x^2} + c_1(-2x)e^{-x^2} + e^{-x^2}\int_0^x e^{t^2}dt\,(-2x)$$

$$2xy = 2xe^{-x^2}\int_0^x e^{t^2}dt + 2xc_1e^{-x^2}$$

$$y' + 2xy = e^{-x^2}\cdot e^{x^2} = 1$$