

Solution (#1619) (i) The integrating factor is $\exp(x^2/2)$. We find $y = 1 - e^{-x^2/2}$.
(ii) The integrating factor is $x^{-3/2}$. We find $y = (x^{3/2} - x^{-2})/7$.
(iii) The integrating factor is $\cos x$. We find $y = \tan x + \sec x$.