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$y(2) = ce^{2/e}$, $y'(2) = e^{-0.5} \times 0.736e^{0.5} x$
12. $y = c e^x x + 1$, $y(0) = c + 1 = 3$, $c = 2$, $y = 2e^x x + 1$
14. $y = c \sec x$, $y(0) = c/\cos 0 = 1/2$, $y = 1/2 \sec x$
16. Substitution of $y = cx + c^2$ into the ODE gives $y^2 - xy + y - c^2 = x^2 - cx + c^2 = 0$. Similarly, $y = 1/4 x^2$, $y = 1/2 x$, thus $1/4 x^2 - x(1/2 x) - 1/4 x^2 = 0$. 18 ...

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