

1.  $y = (x^2 + x^3 + 1)^3$

2.  $y = \cos 3x + \frac{4}{x^3} + \ln x$

3.  $y = \frac{(1+2x)^2}{\sqrt{x}}$

4.  $y = \ln(x + 1) \cdot e^x$

5.  $y = \ln(\sqrt{1 + x^2} - x) + \ln(\sqrt{1 + x^2} + x)$

6.  $\ln(x + y) + \ln(x + y) = 0$

7.  $\begin{cases} x = \frac{e^t}{1+t} \\ y = \frac{\cos t}{2+t^2} \end{cases}$