$\frac{dy}{dx}=\frac{1}{x^2y}$

$\frac{dy}{dx}=x^2y$

$\frac{1}{y}dy=x^2dx$

$(x+2)\frac{dy}{dx}=1$

$\frac{dy}{dx}=\frac{y}{y+1}(x^2-4)$

$\frac{1}{y+2}dy=\frac{1}{x+2}dx$

$dy=(x+2)dx$

$\frac{dy}{dx}=(x+2)$

$\frac{dy}{dx}=3x^2(y+1)$

$\frac{1}{y+1}dy=3x^2dx$

$\frac{dy}{dx}=\frac{3x^2}{y+1}$

$\frac{dy}{dx}=sin\ y$

$\frac{dy}{dx}=cosec\ y$

$sin y\ dy=dx$

$\frac{dy}{dx}=xy(x-2)$

$\frac{1}{y}dy=\frac{1}{x(x-2)}dx$

$(2y-1)dy=(x+2)dx$

$\frac{dx}{dy}=\frac{2y-1}{x+2}$

$\frac{dy}{dx}=\frac{2y-1}{x+2}$

$\frac{1}{2y-1}dy=\frac{1}{x+2}dx$

$\frac{dx}{dy}=ye^{2x}$

$(y+1)dy=3x^2dx$

$\frac{dy}{dx}=\frac{y}{y+1}(x^2-3)$

$\frac{y}{y+1}dy=\frac{1}{x^2-3}dx$

$dy=xlnxdx$

$x\frac{dy}{dx}=ln\ x$

$\frac{1}{x}dy=\frac{ln\ x}{x}dx$

$\frac{dy}{dx}=\frac{x^2y}{x-1}$

$\frac{1}{y}dy=\frac{(x-1)dx}{x^2}$

$(2y-1)dy=(x^2-1)dx$

$\frac{dy}{dx}=\frac{x^2-1}{2y-1}$

$\frac{1}{y}dy=x(x-2)dx$

$\frac{1}{2y-1}dy=\frac{1}{x^2-1}dx$

$\frac{dx}{dy}=\frac{x^2-1}{2y-1}$

$y^2dy=xdx$

$\frac{1}{y}dy=e^{2x}dx$

$\frac{dy}{dx}=ye^{2x}$

$\frac{1}{y^2}dy=\frac{1}{x}dx$

$ydy=e^{-2x}dx$

$dy=\frac{lnx}{x}dx$

$\frac{dy}{dx}=y+3$

$\frac{1}{y+3}dy=\frac{1}{x}dx$

$\frac{dy}{dx}=\frac{y^2}{x}$

$\frac{1}{y^2}dy=\frac{1}{x}dx$

$\frac{1}{y-3}dy=\frac{1}{x}dx$

$cosec\ ydy=dx$

$\frac{1}{y}dy=\frac{x^2dx}{x-1}$

$\frac{dy}{dx}=\frac{x^2-1}{2y-1}$

$\frac{dx}{dy}=\frac{2y-1}{x^2-1}$

$\frac{dy}{dx}=\frac{1}{x^2-1}$

$\frac{dy}{dx}=\frac{1}{x}$

$\frac{dy}{dx}=\frac{y}{x}$

$\frac{dy}{dx}=\frac{x^2y}{x-1}$

$\frac{dy}{dx}=e^{2x}$

$\frac{dy}{dx}=e^{2x+y}$

$\frac{dy}{dx}=e^{2x-y}$

$e^ydy=e^{2x}dx$

$\frac{dy}{dx}=\frac{y^2}{x}$

$\frac{1}{e^y}dy=e^{2x}dx$

$cot\ y\ dy=\frac{1}{x+1}dx$

$(x+1)\frac{dy}{dx}=tan\ y$

$tan\ y\ dy=(x+1)dx$

$\frac{1}{x+1}dy=cot\ y$

$x\frac{dy}{dx}+3=y$