

Differential Equations Worksheet

Get the x s and the dx s to one side and the y s and the dy s to the other. Then integrate. Only add a “+ c ” to one side only. Then you’re done.

1. (a) Find the general solution of $(x^2 - 1)\frac{dy}{dx} = \tan y$.
(b) Find the particular solution given $y = \frac{\pi}{4}$ when $x = 3$.