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

It is linear equation of the form $\frac{dy}{dx} + Py = Q$

Here $P = \frac{2x}{1+x^2}$ and $Q = \frac{4x^2}{1+x^2}$

I.F. $= e^{\int \frac{2x}{1+x^2} dx} = e^{\log(1+x^2)} = (1+x^2)$

Therefore, solution is given by

$$y.(1+x^2) = \int \frac{4x^2}{1+x^2}(1+x^2)dx + c = \frac{4x^3}{3} + c .$$

But it passes through $(0,0)$ therefore $c = 0$, hence the curve is $3y(1+x^2) = 4x^3$.

First Order Linear Differential Equation Solutions Manual

Jonathan D. Rogawski,Jon Rogawski

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