Here 
$$P = \frac{2x}{1+x^2}$$
 and  $Q = \frac{4x^2}{1+x^2}$   
I.F.  $= e^{\int \frac{2x}{1+x^2} dx} = e^{\log(1+x^2)} = (1+x^2)$ 

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

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

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

Therefore, solution is given by

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

# <u>First Order Linear Differential Equation Solutions</u> <u>Manual</u>

**IM Harris** 

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