## First Order Differential Equations

## Anton 7.7



## Procedure for Solving First Order Tinear DiffeQ:

1. Find the integrating factor: $e^{p+x a x}$
2. Multiply both sides of the diff eq.
3. Rewrite as: $\frac{d}{}$ y $q x$

## Example: $\frac{d y}{d x} 4 x y \quad x$ <br> $$
\mu=e^{S}
$$



