

V. The Bernoulli Equation

$$y^{-n} \frac{dy}{dx} = \frac{1}{1-n} \cdot \frac{dz}{dx}$$

- Substituting this to the original equation,

$$y^{-n} \frac{dy}{dx} + P(x)y^{1-n} = Q(x)$$

$$\frac{1}{1-n} \cdot \frac{dz}{dx} + P(x)z = Q(x)$$

- Multiplying the entire equation by $(1-n)$,

$$\frac{dz}{dx} + (1-n)P(x)z = (1-n)Q(x)$$

- This equation is now *linear* in z .

Differential Equation William Wright

Rachel S Tattersall



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