

$$\text{Hoxs} \xrightarrow{\text{H}_2\text{O}} \text{Hox} + \text{H}_2$$

$$\frac{d}{dx} \left( \frac{1}{x^2} \right) = -\frac{2}{x^3}$$

$$\frac{d}{dx} \left( \frac{1}{\sqrt{1-x^2}} \right) = \frac{1}{2} \cdot \frac{1}{(1-x^2)^{3/2}} \cdot (-2x) = \frac{-x}{(1-x^2)^{3/2}}$$

$$\frac{1}{n} \sum_{i=1}^n \left( \frac{X_i - \bar{X}}{\sigma} \right)^2 = \frac{1}{n} \sum_{i=1}^n \frac{(X_i - \bar{X})^2}{\sigma^2} = \frac{1}{n} \sum_{i=1}^n (X_i - \bar{X})^2 = S^2$$

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$



$$\frac{1}{\sqrt{1 - \frac{v^2}{c^2}}} = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}} \cdot \frac{\gamma}{\gamma} = \frac{\gamma}{\sqrt{1 - \frac{v^2}{c^2}}} = \frac{\gamma}{\sqrt{1 - \frac{v^2}{c^2}}} \cdot \frac{\sqrt{1 - \frac{v^2}{c^2}}}{\sqrt{1 - \frac{v^2}{c^2}}} = \frac{\gamma \sqrt{1 - \frac{v^2}{c^2}}}{1 - \frac{v^2}{c^2}}$$

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