

Description

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- **Correlation ($\rho_{x^a, x}$):** $\rho_{x^a, x} = \frac{\text{Cov}(x^a, x)}{\sigma_{x^a} \sigma_x}$. Since $\text{Cov}(x^a, x) = \frac{1}{2} \frac{d}{dx} \text{Var}(x^a) = \frac{1}{2} \frac{d}{dx} (a^2 x^{2a-2}) = a^2 x^{2a-3}$, and $\sigma_x = 1$, $\sigma_{x^a} = \sqrt{\text{Var}(x^a)} = \sqrt{a^2 x^{2a-2}} = a x^{a-1}$. Therefore, $\rho_{x^a, x} = \frac{a^2 x^{2a-3}}{a^2 x^{a-1}} = x^{a-2}$.
- **Correlation (ρ_{x^a, x^a}):** $\rho_{x^a, x^a} = 1$, since the correlation of a variable with itself is always 1.
- **Correlation ($\rho_{x^a, x^{2a}}$):** $\rho_{x^a, x^{2a}} = \frac{\text{Cov}(x^a, x^{2a})}{\sigma_{x^a} \sigma_{x^{2a}}}$. Since $\text{Cov}(x^a, x^{2a}) = \frac{1}{2} \frac{d}{dx} \text{Var}(x^{2a}) = \frac{1}{2} \frac{d}{dx} (4a^2 x^{4a-2}) = 2a^2 x^{4a-3}$, and $\sigma_{x^a} = a x^{a-1}$, $\sigma_{x^{2a}} = 2a x^{2a-1}$. Therefore, $\rho_{x^a, x^{2a}} = \frac{2a^2 x^{4a-3}}{a x^{a-1} \cdot 2a x^{2a-1}} = x^{a-2}$.

5. $x^2 x^3 x^4 x^5 \cdot x^6 x^7 x^8 x^9 x^{10}$

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22 x?x?x x?x•x" 2026

Author

admin