

- ~~1. $\frac{1}{x^2} = x^{-2}$~~
 ~~$\frac{d}{dx} x^{-2} = -2x^{-3}$~~
 ~~$= -\frac{2}{x^3}$~~
- ~~2. $\frac{1}{x^3} = x^{-3}$~~
 ~~$\frac{d}{dx} x^{-3} = -3x^{-4}$~~
 ~~$= -\frac{3}{x^4}$~~
- ~~3. $\frac{1}{x^4} = x^{-4}$~~
 ~~$\frac{d}{dx} x^{-4} = -4x^{-5}$~~
 ~~$= -\frac{4}{x^5}$~~
- ~~4. $\frac{1}{x^5} = x^{-5}$~~
 ~~$\frac{d}{dx} x^{-5} = -5x^{-6}$~~
 ~~$= -\frac{5}{x^6}$~~

~~5.~~

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 ~~$= -\frac{5}{x^6}$~~

