

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