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

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

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$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
 $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$
 $\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$

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$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
 $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$
 $\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$

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