

(3) $\frac{1}{x^2} \frac{d}{dx} x^2 = 2x \cdot \frac{1}{x^3} = \frac{2}{x^2}$
 $\frac{1}{x^3} \frac{d}{dx} x^3 = 3x^2 \cdot \frac{1}{x^4} = \frac{3}{x^2}$
 $\frac{1}{x^n} \frac{d}{dx} x^n = n x^{n-1} \cdot \frac{1}{x^{n+1}} = \frac{n}{x^2}$

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

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(2) $\frac{d}{dx} x^2 = 2x$
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