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12. ...
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13. (a) ...
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(b) ...
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(1) ...
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(c) ...
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16. (a) $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$

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

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

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

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

$\frac{d}{dx} x^5 = 5x^4$

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

(2) $\frac{d}{dx} x^{-1} = -x^{-2} = -\frac{1}{x^2}$

(3) $\frac{d}{dx} x^{\frac{1}{2}} = \frac{1}{2}x^{-\frac{1}{2}} = \frac{1}{2\sqrt{x}}$

(a) $\frac{d}{dx} x^{\frac{1}{2}} = \frac{1}{2}x^{-\frac{1}{2}} = \frac{1}{2\sqrt{x}}$

(b) $\frac{d}{dx} x^{\frac{1}{3}} = \frac{1}{3}x^{-\frac{2}{3}} = \frac{1}{3\sqrt[3]{x^2}}$

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

(2) $\frac{d}{dx} x^3 = 3x^2$

(3) $\frac{d}{dx} x^4 = 4x^3$

(4) $\frac{d}{dx} x^5 = 5x^4$

(5) $\frac{d}{dx} x^n = nx^{n-1}$

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