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12. ...
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13. (a) ...
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(2) ...
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(b) ...
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(1) ...
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(2) ...
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(3) ...
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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) $\frac{d}{dx} x^0 = 0$

$\frac{d}{dx} x^1 = 1$

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

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

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

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

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

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

(6) 6 : 6

(7) 7 : 7

(8) 8 : 8

(a) 9 : 9

(b) 10 : 10

(c) 11 : 11

17 : 17

18 : 18

(a) 19 : 19

19 : 19

(a) 20 : 20

