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

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

(3)  $\frac{1}{x^4} = x^{-4}$   $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$   $\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$

(4)  $\frac{1}{x^5} = x^{-5}$   $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$   $\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$

(5)  $\frac{1}{x^6} = x^{-6}$   $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$   $\frac{d}{dx} \frac{1}{x^6} = -\frac{6}{x^7}$

(6)  $\frac{1}{x^7} = x^{-7}$   $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$   $\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$

(7)  $\frac{1}{x^8} = x^{-8}$   $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$   $\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$

(8)  $\frac{1}{x^9} = x^{-9}$   $\frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$   $\frac{d}{dx} \frac{1}{x^9} = -\frac{9}{x^{10}}$

(9)  $\frac{1}{x^{10}} = x^{-10}$   $\frac{d}{dx} x^{-10} = -10x^{-11} = -\frac{10}{x^{11}}$   $\frac{d}{dx} \frac{1}{x^{10}} = -\frac{10}{x^{11}}$

(10)  $\frac{1}{x^{11}} = x^{-11}$   $\frac{d}{dx} x^{-11} = -11x^{-12} = -\frac{11}{x^{12}}$   $\frac{d}{dx} \frac{1}{x^{11}} = -\frac{11}{x^{12}}$

(11)  $\frac{1}{x^{12}} = x^{-12}$   $\frac{d}{dx} x^{-12} = -12x^{-13} = -\frac{12}{x^{13}}$   $\frac{d}{dx} \frac{1}{x^{12}} = -\frac{12}{x^{13}}$

(12)  $\frac{1}{x^{13}} = x^{-13}$   $\frac{d}{dx} x^{-13} = -13x^{-14} = -\frac{13}{x^{14}}$   $\frac{d}{dx} \frac{1}{x^{13}} = -\frac{13}{x^{14}}$

(ب)  $\frac{d}{dx} \frac{1}{x^{14}} = -\frac{14}{x^{15}}$



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