



6.  $\frac{1}{x^2} = x^{-2}$   $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$
7.  $\frac{1}{x^3} = x^{-3}$   $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$
8.  $\frac{1}{x^4} = x^{-4}$   $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$
9.  $\frac{1}{x^5} = x^{-5}$   $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$
10.  $\frac{1}{x^6} = x^{-6}$   $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$
11.  $\frac{1}{x^7} = x^{-7}$   $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$
12.  $\frac{1}{x^8} = x^{-8}$   $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$
13.  $\frac{1}{x^9} = x^{-9}$   $\frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$
14.  $\frac{1}{x^{10}} = x^{-10}$   $\frac{d}{dx} x^{-10} = -10x^{-11} = -\frac{10}{x^{11}}$

1.  $\frac{d}{dx} x^2 = 2x$   $\frac{d}{dx} x^3 = 3x^2$   $\frac{d}{dx} x^4 = 4x^3$   $\frac{d}{dx} x^5 = 5x^4$   $\frac{d}{dx} x^6 = 6x^5$   $\frac{d}{dx} x^7 = 7x^6$   $\frac{d}{dx} x^8 = 8x^7$   $\frac{d}{dx} x^9 = 9x^8$
2.  $\frac{d}{dx} x^{-1} = -x^{-2} = -\frac{1}{x^2}$   $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$   $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$   $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$   $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$   $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$   $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$   $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$   $\frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$

دانشجوی محترم:

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