





3.  $\frac{1}{x^2} = x^{-2}$   $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$   $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$
4.  $\frac{1}{x^3} = x^{-3}$   $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$   $\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$
5.  $\frac{1}{x^4} = x^{-4}$   $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$   $\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$
6.  $\frac{1}{x^5} = x^{-5}$   $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$   $\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$
7.  $\frac{1}{x^6} = x^{-6}$   $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$   $\frac{d}{dx} \frac{1}{x^6} = -\frac{6}{x^7}$
8.  $\frac{1}{x^7} = x^{-7}$   $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$   $\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$
9.  $\frac{1}{x^8} = x^{-8}$   $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$   $\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$
10.  $\frac{1}{x^9} = x^{-9}$   $\frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$   $\frac{d}{dx} \frac{1}{x^9} = -\frac{9}{x^{10}}$
11.  $\frac{1}{x^{10}} = x^{-10}$   $\frac{d}{dx} x^{-10} = -10x^{-11} = -\frac{10}{x^{11}}$   $\frac{d}{dx} \frac{1}{x^{10}} = -\frac{10}{x^{11}}$
12.  $\frac{1}{x^{11}} = x^{-11}$   $\frac{d}{dx} x^{-11} = -11x^{-12} = -\frac{11}{x^{12}}$   $\frac{d}{dx} \frac{1}{x^{11}} = -\frac{11}{x^{12}}$
13.  $\frac{1}{x^{12}} = x^{-12}$   $\frac{d}{dx} x^{-12} = -12x^{-13} = -\frac{12}{x^{13}}$   $\frac{d}{dx} \frac{1}{x^{12}} = -\frac{12}{x^{13}}$
14.  $\frac{1}{x^{13}} = x^{-13}$   $\frac{d}{dx} x^{-13} = -13x^{-14} = -\frac{13}{x^{14}}$   $\frac{d}{dx} \frac{1}{x^{13}} = -\frac{13}{x^{14}}$
15.  $\frac{1}{x^{14}} = x^{-14}$   $\frac{d}{dx} x^{-14} = -14x^{-15} = -\frac{14}{x^{15}}$   $\frac{d}{dx} \frac{1}{x^{14}} = -\frac{14}{x^{15}}$
16.  $\frac{1}{x^{15}} = x^{-15}$   $\frac{d}{dx} x^{-15} = -15x^{-16} = -\frac{15}{x^{16}}$   $\frac{d}{dx} \frac{1}{x^{15}} = -\frac{15}{x^{16}}$
17.  $\frac{1}{x^{16}} = x^{-16}$   $\frac{d}{dx} x^{-16} = -16x^{-17} = -\frac{16}{x^{17}}$   $\frac{d}{dx} \frac{1}{x^{16}} = -\frac{16}{x^{17}}$
18.  $\frac{1}{x^{17}} = x^{-17}$   $\frac{d}{dx} x^{-17} = -17x^{-18} = -\frac{17}{x^{18}}$   $\frac{d}{dx} \frac{1}{x^{17}} = -\frac{17}{x^{18}}$
19.  $\frac{1}{x^{18}} = x^{-18}$   $\frac{d}{dx} x^{-18} = -18x^{-19} = -\frac{18}{x^{19}}$   $\frac{d}{dx} \frac{1}{x^{18}} = -\frac{18}{x^{19}}$
20.  $\frac{1}{x^{19}} = x^{-19}$   $\frac{d}{dx} x^{-19} = -19x^{-20} = -\frac{19}{x^{20}}$   $\frac{d}{dx} \frac{1}{x^{19}} = -\frac{19}{x^{20}}$
21.  $\frac{1}{x^{20}} = x^{-20}$   $\frac{d}{dx} x^{-20} = -20x^{-21} = -\frac{20}{x^{21}}$   $\frac{d}{dx} \frac{1}{x^{20}} = -\frac{20}{x^{21}}$
22.  $\frac{1}{x^{21}} = x^{-21}$   $\frac{d}{dx} x^{-21} = -21x^{-22} = -\frac{21}{x^{22}}$   $\frac{d}{dx} \frac{1}{x^{21}} = -\frac{21}{x^{22}}$
23.  $\frac{1}{x^{22}} = x^{-22}$   $\frac{d}{dx} x^{-22} = -22x^{-23} = -\frac{22}{x^{23}}$   $\frac{d}{dx} \frac{1}{x^{22}} = -\frac{22}{x^{23}}$
24.  $\frac{1}{x^{23}} = x^{-23}$   $\frac{d}{dx} x^{-23} = -23x^{-24} = -\frac{23}{x^{24}}$   $\frac{d}{dx} \frac{1}{x^{23}} = -\frac{23}{x^{24}}$
25.  $\frac{1}{x^{24}} = x^{-24}$   $\frac{d}{dx} x^{-24} = -24x^{-25} = -\frac{24}{x^{25}}$   $\frac{d}{dx} \frac{1}{x^{24}} = -\frac{24}{x^{25}}$
26.  $\frac{1}{x^{25}} = x^{-25}$   $\frac{d}{dx} x^{-25} = -25x^{-26} = -\frac{25}{x^{26}}$   $\frac{d}{dx} \frac{1}{x^{25}} = -\frac{25}{x^{26}}$
27.  $\frac{1}{x^{26}} = x^{-26}$   $\frac{d}{dx} x^{-26} = -26x^{-27} = -\frac{26}{x^{27}}$   $\frac{d}{dx} \frac{1}{x^{26}} = -\frac{26}{x^{27}}$

