

[illegible]

۱.  $\frac{1}{x^2} = x^{-2}$   $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$   
 ۲.  $\frac{1}{x^3} = x^{-3}$   $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$   
 ۳.  $\frac{1}{x^4} = x^{-4}$   $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$   
 ۴.  $\frac{1}{x^5} = x^{-5}$   $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$   
 ۵.  $\frac{1}{x^6} = x^{-6}$   $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$   
 ۶.  $\frac{1}{x^7} = x^{-7}$   $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$   
 ۷.  $\frac{1}{x^8} = x^{-8}$   $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$   
 ۸.  $\frac{1}{x^9} = x^{-9}$   $\frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$   
 ۹.  $\frac{1}{x^{10}} = x^{-10}$   $\frac{d}{dx} x^{-10} = -10x^{-11} = -\frac{10}{x^{11}}$   
 ۱۰.  $\frac{1}{x^{11}} = x^{-11}$   $\frac{d}{dx} x^{-11} = -11x^{-12} = -\frac{11}{x^{12}}$   
 ۱۱.  $\frac{1}{x^{12}} = x^{-12}$   $\frac{d}{dx} x^{-12} = -12x^{-13} = -\frac{12}{x^{13}}$   
 ۱۲.  $\frac{1}{x^{13}} = x^{-13}$   $\frac{d}{dx} x^{-13} = -13x^{-14} = -\frac{13}{x^{14}}$   
 ۱۳.  $\frac{1}{x^{14}} = x^{-14}$   $\frac{d}{dx} x^{-14} = -14x^{-15} = -\frac{14}{x^{15}}$   
 ۱۴.  $\frac{1}{x^{15}} = x^{-15}$   $\frac{d}{dx} x^{-15} = -15x^{-16} = -\frac{15}{x^{16}}$   
 ۱۵.  $\frac{1}{x^{16}} = x^{-16}$   $\frac{d}{dx} x^{-16} = -16x^{-17} = -\frac{16}{x^{17}}$   
 ۱۶.  $\frac{1}{x^{17}} = x^{-17}$   $\frac{d}{dx} x^{-17} = -17x^{-18} = -\frac{17}{x^{18}}$   
 ۱۷.  $\frac{1}{x^{18}} = x^{-18}$   $\frac{d}{dx} x^{-18} = -18x^{-19} = -\frac{18}{x^{19}}$   
 ۱۸.  $\frac{1}{x^{19}} = x^{-19}$   $\frac{d}{dx} x^{-19} = -19x^{-20} = -\frac{19}{x^{20}}$   
 ۱۹.  $\frac{1}{x^{20}} = x^{-20}$   $\frac{d}{dx} x^{-20} = -20x^{-21} = -\frac{20}{x^{21}}$   
 ۲۰.  $\frac{1}{x^{21}} = x^{-21}$   $\frac{d}{dx} x^{-21} = -21x^{-22} = -\frac{21}{x^{22}}$   
 ۲۱.  $\frac{1}{x^{22}} = x^{-22}$   $\frac{d}{dx} x^{-22} = -22x^{-23} = -\frac{22}{x^{23}}$   
 ۲۲.  $\frac{1}{x^{23}} = x^{-23}$   $\frac{d}{dx} x^{-23} = -23x^{-24} = -\frac{23}{x^{24}}$   
 ۲۳.  $\frac{1}{x^{24}} = x^{-24}$   $\frac{d}{dx} x^{-24} = -24x^{-25} = -\frac{24}{x^{25}}$   
 ۲۴.  $\frac{1}{x^{25}} = x^{-25}$   $\frac{d}{dx} x^{-25} = -25x^{-26} = -\frac{25}{x^{26}}$   
 ۲۵.  $\frac{1}{x^{26}} = x^{-26}$   $\frac{d}{dx} x^{-26} = -26x^{-27} = -\frac{26}{x^{27}}$   
 ۲۶.  $\frac{1}{x^{27}} = x^{-27}$   $\frac{d}{dx} x^{-27} = -27x^{-28} = -\frac{27}{x^{28}}$   
 ۲۷.  $\frac{1}{x^{28}} = x^{-28}$   $\frac{d}{dx} x^{-28} = -28x^{-29} = -\frac{28}{x^{29}}$   
 ۲۸.  $\frac{1}{x^{29}} = x^{-29}$   $\frac{d}{dx} x^{-29} = -29x^{-30} = -\frac{29}{x^{30}}$   
 ۲۹.  $\frac{1}{x^{30}} = x^{-30}$   $\frac{d}{dx} x^{-30} = -30x^{-31} = -\frac{30}{x^{31}}$   
 ۳۰.  $\frac{1}{x^{31}} = x^{-31}$   $\frac{d}{dx} x^{-31} = -31x^{-32} = -\frac{31}{x^{32}}$   
 ۳۱.  $\frac{1}{x^{32}} = x^{-32}$   $\frac{d}{dx} x^{-32} = -32x^{-33} = -\frac{32}{x^{33}}$   
 ۳۲.  $\frac{1}{x^{33}} = x^{-33}$   $\frac{d}{dx} x^{-33} = -33x^{-34} = -\frac{33}{x^{34}}$   
 ۳۳.  $\frac{1}{x^{34}} = x^{-34}$   $\frac{d}{dx} x^{-34} = -34x^{-35} = -\frac{34}{x^{35}}$   
 ۳۴.  $\frac{1}{x^{35}} = x^{-35}$   $\frac{d}{dx} x^{-35} = -35x^{-36} = -\frac{35}{x^{36}}$   
 ۳۵.  $\frac{1}{x^{36}} = x^{-36}$   $\frac{d}{dx} x^{-36} = -36x^{-37} = -\frac{36}{x^{37}}$   
 ۳۶.  $\frac{1}{x^{37}} = x^{-37}$   $\frac{d}{dx} x^{-37} = -37x^{-38} = -\frac{37}{x^{38}}$   
 ۳۷.  $\frac{1}{x^{38}} = x^{-38}$   $\frac{d}{dx} x^{-38} = -38x^{-39} = -\frac{38}{x^{39}}$   
 ۳۸.  $\frac{1}{x^{39}} = x^{-39}$   $\frac{d}{dx} x^{-39} = -39x^{-40} = -\frac{39}{x^{40}}$   
 ۳۹.  $\frac{1}{x^{40}} = x^{-40}$   $\frac{d}{dx} x^{-40} = -40x^{-41} = -\frac{40}{x^{41}}$   
 ۴۰.  $\frac{1}{x^{41}} = x^{-41}$   $\frac{d}{dx} x^{-41} = -41x^{-42} = -\frac{41}{x^{42}}$   
 ۴۱.  $\frac{1}{x^{42}} = x^{-42}$   $\frac{d}{dx} x^{-42} = -42x^{-43} = -\frac{42}{x^{43}}$   
 ۴۲.  $\frac{1}{x^{43}} = x^{-43}$   $\frac{d}{dx} x^{-43} = -43x^{-44} = -\frac{43}{x^{44}}$   
 ۴۳.  $\frac{1}{x^{44}} = x^{-44}$   $\frac{d}{dx} x^{-44} = -44x^{-45} = -\frac{44}{x^{45}}$   
 ۴۴.  $\frac{1}{x^{45}} = x^{-45}$   $\frac{d}{dx} x^{-45} = -45x^{-46} = -\frac{45}{x^{46}}$   
 ۴۵.  $\frac{1}{x^{46}} = x^{-46}$   $\frac{d}{dx} x^{-46} = -46x^{-47} = -\frac{46}{x^{47}}$   
 ۴۶.  $\frac{1}{x^{47}} = x^{-47}$   $\frac{d}{dx} x^{-47} = -47x^{-48} = -\frac{47}{x^{48}}$   
 ۴۷.  $\frac{1}{x^{48}} = x^{-48}$   $\frac{d}{dx} x^{-48} = -48x^{-49} = -\frac{48}{x^{49}}$   
 ۴۸.  $\frac{1}{x^{49}} = x^{-49}$   $\frac{d}{dx} x^{-49} = -49x^{-50} = -\frac{49}{x^{50}}$   
 ۴۹.  $\frac{1}{x^{50}} = x^{-50}$   $\frac{d}{dx} x^{-50} = -50x^{-51} = -\frac{50}{x^{51}}$   
 ۵۰.  $\frac{1}{x^{51}} = x^{-51}$   $\frac{d}{dx} x^{-51} = -51x^{-52} = -\frac{51}{x^{52}}$   
 ۵۱.  $\frac{1}{x^{52}} = x^{-52}$   $\frac{d}{dx} x^{-52} = -52x^{-53} = -\frac{52}{x^{53}}$   
 ۵۲.  $\frac{1}{x^{53}} = x^{-53}$   $\frac{d}{dx} x^{-53} = -53x^{-54} = -\frac{53}{x^{54}}$   
 ۵۳.  $\frac{1}{x^{54}} = x^{-54}$   $\frac{d}{dx} x^{-54} = -54x^{-55} = -\frac{54}{x^{55}}$   
 ۵۴.  $\frac{1}{x^{55}} = x^{-55}$   $\frac{d}{dx} x^{-55} = -55x^{-56} = -\frac{55}{x^{56}}$   
 ۵۵.  $\frac{1}{x^{56}} = x^{-56}$   $\frac{d}{dx} x^{-56} = -56x^{-57} = -\frac{56}{x^{57}}$   
 ۵۶.  $\frac{1}{x^{57}} = x^{-57}$   $\frac{d}{dx} x^{-57} = -57x^{-58} = -\frac{57}{x^{58}}$   
 ۵۷.  $\frac{1}{x^{58}} = x^{-58}$   $\frac{d}{dx} x^{-58} = -58x^{-59} = -\frac{58}{x^{59}}$   
 ۵۸.  $\frac{1}{x^{59}} = x^{-59}$   $\frac{d}{dx} x^{-59} = -59x^{-60} = -\frac{59}{x^{60}}$   
 ۵۹.  $\frac{1}{x^{60}} = x^{-60}$   $\frac{d}{dx} x^{-60} = -60x^{-61} = -\frac{60}{x^{61}}$   
 ۶۰.  $\frac{1}{x^{61}} = x^{-61}$   $\frac{d}{dx} x^{-61} = -61x^{-62} = -\frac{61}{x^{62}}$   
 ۶۱.  $\frac{1}{x^{62}} = x^{-62}$   $\frac{d}{dx} x^{-62} = -62x^{-63} = -\frac{62}{x^{63}}$   
 ۶۲.  $\frac{1}{x^{6$

3470.00	٣٤٧٠.٠٠
2022 09	٢٠٢٢ ٠٩

(IUL)302-E/302/2022/18	٤٠٢٢ ١٨ / ٣٠٢ / ٢٠٢٢ ١٨ / ٣٠٢ / ٢٠٢٢
	٥٠٢٢ ١٨ / ٣٠٢ / ٢٠٢٢ ١٨ / ٣٠٢ / ٢٠٢٢

[illegible][illegible][illegible]