

1. مَجْرَبٌ مَجْرَبٌ

[illegible][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. $\frac{1}{x^{6$

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

(Handwritten signature)



2025 ۱۵ ۰۷

