

 $n_1/n_2/g$

Sejett 21a

1. 2×10^2
 2. 3×10^3
 3. 4×10^4
 4. 5×10^5
 5. 6×10^6
 6. 7×10^7
 7. 8×10^8
 8. 9×10^9
 9. 10×10^{10}
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 162. 163×10^{163}
 163. 164×10^{164}
 164. 165

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. $\frac{1}{x^{13}} = x^{-13}$
 $\frac{d}{dx} x^{-13} = -13x^{-14} = -\frac{13}{x^{14}}$
 $\frac{d}{dx} \frac{1}{x^{13}} = -\frac{13}{x^{14}}$
 13. $\frac{1}{x^{14}} = x^{-14}$
 $\frac{d}{dx} x^{-14} = -14x^{-15} = -\frac{14}{x^{15}}$
 $\frac{d}{dx} \frac{1}{x^{14}} = -\frac{14}{x^{15}}$
 14. $\frac{1}{x^{15}} = x^{-15}$
 $\frac{d}{dx} x^{-15} = -15x^{-16} = -\frac{15}{x^{16}}$
 $\frac{d}{dx} \frac{1}{x^{15}} = -\frac{15}{x^{16}}$
 15. $\frac{1}{x^{16}} = x^{-16}$
 $\frac{d}{dx} x^{-16} = -16x^{-17} = -\frac{16}{x^{17}}$
 $\frac{d}{dx} \frac{1}{x^{16}} = -\frac{16}{x^{17}}$
 16. $\frac{1}{x^{17}} = x^{-17}$
 $\frac{d}{dx} x^{-17} = -17x^{-18} = -\frac{17}{x^{18}}$
 $\frac{d}{dx} \frac{1}{x^{17}} = -\frac{17}{x^{18}}$
 17. $\frac{1}{x^{18}} = x^{-18}$
 $\frac{d}{dx} x^{-18} = -18x^{-19} = -\frac{18}{x^{19}}$
 $\frac{d}{dx} \frac{1}{x^{18}} = -\frac{18}{x^{19}}$
 18. $\frac{1}{x^{19}} = x^{-19}$
 $\frac{d}{dx} x^{-19} = -19x^{-20} = -\frac{19}{x^{20}}$
 $\frac{d}{dx} \frac{1}{x^{19}} = -\frac{19}{x^{20}}$
 19. $\frac{1}{x^{20}} = x^{-20}$
 $\frac{d}{dx} x^{-20} = -20x^{-21} = -\frac{20}{x^{21}}$
 $\frac{d}{dx} \frac{1}{x^{20}} = -\frac{20}{x^{21}}$
 20. $\frac{1}{x^{21}} = x^{-21}$
 $\frac{d}{dx} x^{-21} = -21x^{-22} = -\frac{21}{x^{22}}$
 $\frac{d}{dx} \frac{1}{x^{21}} = -\frac{21}{x^{22}}$
 21. $\frac{1}{x^{22}} = x^{-22}$
 $\frac{d}{dx} x^{-22} = -22x^{-23} = -\frac{22}{x^{23}}$
 $\frac{d}{dx} \frac{1}{x^{22}} = -\frac{22}{x^{23}}$
 22. $\frac{1}{x^{23}} = x^{-23}$
 $\frac{d}{dx} x^{-23} = -23x^{-24} = -\frac{23}{x^{24}}$
 $\frac{d}{dx} \frac{1}{x^{23}} = -\frac{23}{x^{24}}$
 23. $\frac{1}{x^{24}} = x^{-24}$
 $\frac{d}{dx} x^{-24} = -24x^{-25} = -\frac{24}{x^{25}}$
 $\frac{d}{dx} \frac{1}{x^{24}} = -\frac{24}{x^{25}}$
 24. $\frac{1}{x^{25}} = x^{-25}$
 $\frac{d}{dx} x^{-25} = -25x^{-26} = -\frac{25}{x^{26}}$
 $\frac{d}{dx} \frac{1}{x^{25}} = -\frac{25}{x^{26}}$
 25. $\frac{1}{x^{26}} = x^{-26}$
 $\frac{d}{dx} x^{-26} = -26x^{-27} = -\frac{26}{x^{27}}$
 $\frac{d}{dx} \frac{1}{x^{26}} = -\frac{26}{x^{27}}$
 26. $\frac{1}{x^{27}} = x^{-27}$
 $\frac{d}{dx} x^{-27} = -27x^{-28} = -\frac{27}{x^{28}}$
 $\frac{d}{dx} \frac{1}{x^{27}} = -\frac{27}{x^{28}}$
 27. $\frac{1}{x^{28}} = x^{-28}$
 $\frac{d}{dx} x^{-28} = -28x^{-29} = -\frac{28}{x^{29}}$
 $\frac{d}{dx} \frac{1}{x^{28}} = -\frac{28}{x^{29}}$
 28. $\frac{1}{x^{29}} = x^{-29}$
 $\frac{d}{dx} x^{-29} = -29x^{-30} = -\frac{29}{x^{30}}$
 $\frac{d}{dx} \frac{1}{x^{29}} = -\frac{29}{x^{30}}$
 29. $\frac{1}{x^{30}} = x^{-30}$
 $\frac{d}{dx} x^{-30} = -30x^{-31} = -\frac{30}{x^{31}}$
 $\frac{d}{dx} \frac{1}{x^{30}} = -\frac{30}{x^{31}}$
 30. $\frac{1}{x^{31}} = x^{-31}$
 $\frac{d}{dx} x^{-31} = -31x^{-32} = -\frac{31}{x^{32}}$
 $\frac{d}{dx} \frac{1}{x^{31}} = -\frac{31}{x^{32}}$
 31. $\frac{1}{x^{32}} = x^{-32}$
 $\frac{d}{dx} x^{-32} = -32x^{-33} = -\frac{32}{x^{33}}$
 $\frac{d}{dx} \frac{1}{x^{32}} = -\frac{32}{x^{33}}$
 32. $\frac{1}{x^{33}} = x^{-33}$
 $\frac{d}{dx} x^{-33} = -33x^{-34} = -\frac{33}{x^{34}}$
 $\frac{d}{dx} \frac{1}{x^{33}} = -\frac{33}{x^{34}}$
 33. $\frac{1}{x^{34}} = x^{-34}$
 $\frac{d}{dx} x^{-34} = -34x^{-35} = -\frac{34}{x^{35}}$
 $\frac{d}{dx} \frac{1}{x^{34}} = -\frac{34}{x^{35}}$
 34. $\frac{1}{x^{35}} = x^{-35}$
 $\frac{d}{dx} x^{-35} = -35x^{-36} = -\frac{35}{x^{36}}$
 $\frac{d}{dx} \frac{1}{x^{35}} = -\frac{35}{x^{36}}$
 35. $\frac{1}{x^{36}} = x^{-36}$
 $\frac{d}{dx} x^{-36} = -36x^{-37} = -\frac{36}{x^{37}}$
 $\frac{d}{dx} \frac{1}{x^{36}} = -\frac{36}{x^{37}}$
 36. $\frac{1}{x^{37}} = x^{-37}$
 $\frac{d}{dx} x^{-37} = -37x^{-38} = -\frac{37}{x^{38}}$
 $\frac{d}{dx} \frac{1}{x^{37}} = -\frac{37}{x^{38}}$
 37. $\frac{1}{x^{38}} = x^{-38}$
 $\frac{d}{dx} x^{-38} = -38x^{-39} = -\frac{38}{x^{39}}$
 $\frac{d}{dx} \frac{1}{x^{38}} = -\frac{38}{x^{39}}$
 38. $\frac{1}{x^{39}} = x^{-39}$
 $\frac{d}{dx} x^{-39} = -39x^{-40} = -\frac{39}{x^{40}}$
 $\frac{d}{dx} \frac{1}{x^{39}} = -\frac{39}{x^{40}}$
 39. $\frac{1}{x^{40}} = x^{-40}$
 $\frac{d}{dx} x^{-40} = -40x^{-41} = -\frac{40}{x^{41}}$
 $\frac{d}{dx} \frac{1}{x^{40}} = -\frac{40}{x^{41}}$
 40. $\frac{1}{x^{41}} = x^{-41}$
 $\frac{d}{dx} x^{-41} = -4$