

EXERCISES

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

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

3. $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$

4. $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$

5. $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$

6. $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$

7. $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$

8. $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$

9. $\frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$

10. $\frac{d}{dx} x^{-10} = -10x^{-11} = -\frac{10}{x^{11}}$

11. $\frac{d}{dx} x^{-11} = -11x^{-12} = -\frac{11}{x^{12}}$

12. $\frac{d}{dx} x^{-12} = -12x^{-13} = -\frac{12}{x^{13}}$

13. $\frac{d}{dx} x^{-13} = -13x^{-14} = -\frac{13}{x^{14}}$

14. $\frac{d}{dx} x^{-14} = -14x^{-15} = -\frac{14}{x^{15}}$

15. $\frac{d}{dx} x^{-15} = -15x^{-16} = -\frac{15}{x^{16}}$

16. $\frac{d}{dx} x^{-16} = -16x^{-17} = -\frac{16}{x^{17}}$

17. $\frac{d}{dx} x^{-17} = -17x^{-18} = -\frac{17}{x^{18}}$

18. $\frac{d}{dx} x^{-18} = -18x^{-19} = -\frac{18}{x^{19}}$

19. $\frac{d}{dx} x^{-19} = -19x^{-20} = -\frac{19}{x^{20}}$

20. $\frac{d}{dx} x^{-20} = -20x^{-21} = -\frac{20}{x^{21}}$

Exercise	Answer
1	$-\frac{2}{x^3}$
2	$-\frac{1}{x^2}$
3	$-\frac{3}{x^4}$
4	$-\frac{4}{x^5}$
5	$-\frac{5}{x^6}$
6	$-\frac{6}{x^7}$
7	$-\frac{7}{x^8}$
8	$-\frac{8}{x^9}$
9	$-\frac{9}{x^{10}}$
10	$-\frac{10}{x^{11}}$
11	$-\frac{11}{x^{12}}$
12	$-\frac{12}{x^{13}}$
13	$-\frac{13}{x^{14}}$
14	$-\frac{14}{x^{15}}$
15	$-\frac{15}{x^{16}}$
16	$-\frac{16}{x^{17}}$
17	$-\frac{17}{x^{18}}$
18	$-\frac{18}{x^{19}}$
19	$-\frac{19}{x^{20}}$
20	$-\frac{20}{x^{21}}$