

6. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$
7. $\frac{1}{x^3} = x^{-3}$ $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$
8. $\frac{1}{x^4} = x^{-4}$ $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$
9. $\frac{1}{x^5} = x^{-5}$ $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$
10. $\frac{1}{x^6} = x^{-6}$ $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$
11. $\frac{1}{x^7} = x^{-7}$ $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$
12. $\frac{1}{x^8} = x^{-8}$ $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$

1. $\frac{d}{dx} x^5 = 5x^4$ $\frac{d}{dx} x^6 = 6x^5$ $\frac{d}{dx} x^7 = 7x^6$ $\frac{d}{dx} x^8 = 8x^7$

توانایی حل مسئله

1. $\frac{d}{dx} x^5 = 5x^4$ $\frac{d}{dx} x^6 = 6x^5$ $\frac{d}{dx} x^7 = 7x^6$ $\frac{d}{dx} x^8 = 8x^7$

2. $\frac{d}{dx} x^9 = 9x^8$ $\frac{d}{dx} x^{10} = 10x^9$ $\frac{d}{dx} x^{11} = 11x^{10}$ $\frac{d}{dx} x^{12} = 12x^{11}$

3. $\frac{d}{dx} x^{13} = 13x^{12}$ $\frac{d}{dx} x^{14} = 14x^{13}$ $\frac{d}{dx} x^{15} = 15x^{14}$ $\frac{d}{dx} x^{16} = 16x^{15}$

4. $\frac{d}{dx} x^{17} = 17x^{16}$ $\frac{d}{dx} x^{18} = 18x^{17}$ $\frac{d}{dx} x^{19} = 19x^{18}$ $\frac{d}{dx} x^{20} = 20x^{19}$

5. $\frac{d}{dx} x^{21} = 21x^{20}$ $\frac{d}{dx} x^{22} = 22x^{21}$ $\frac{d}{dx} x^{23} = 23x^{22}$ $\frac{d}{dx} x^{24} = 24x^{23}$

6. $\frac{d}{dx} x^{25} = 25x^{24}$ $\frac{d}{dx} x^{26} = 26x^{25}$ $\frac{d}{dx} x^{27} = 27x^{26}$ $\frac{d}{dx} x^{28} = 28x^{27}$

7. $\frac{d}{dx} x^{29} = 29x^{28}$ $\frac{d}{dx} x^{30} = 30x^{29}$ $\frac{d}{dx} x^{31} = 31x^{30}$ $\frac{d}{dx} x^{32} = 32x^{31}$

8. $\frac{d}{dx} x^{33} = 33x^{32}$ $\frac{d}{dx} x^{34} = 34x^{33}$ $\frac{d}{dx} x^{35} = 35x^{34}$ $\frac{d}{dx} x^{36} = 36x^{35}$

9. $\frac{d}{dx} x^{37} = 37x^{36}$ $\frac{d}{dx} x^{38} = 38x^{37}$ $\frac{d}{dx} x^{39} = 39x^{38}$ $\frac{d}{dx} x^{40} = 40x^{39}$

10. $\frac{d}{dx} x^{41} = 41x^{40}$ $\frac{d}{dx} x^{42} = 42x^{41}$ $\frac{d}{dx} x^{43} = 43x^{42}$ $\frac{d}{dx} x^{44} = 44x^{43}$

11. $\frac{d}{dx} x^{45} = 45x^{44}$ $\frac{d}{dx} x^{46} = 46x^{45}$ $\frac{d}{dx} x^{47} = 47x^{46}$ $\frac{d}{dx} x^{48} = 48x^{47}$

12. $\frac{d}{dx} x^{49} = 49x^{48}$ $\frac{d}{dx} x^{50} = 50x^{49}$ $\frac{d}{dx} x^{51} = 51x^{50}$ $\frac{d}{dx} x^{52} = 52x^{51}$

13. $\frac{d}{dx} x^{53} = 53x^{52}$ $\frac{d}{dx} x^{54} = 54x^{53}$ $\frac{d}{dx} x^{55} = 55x^{54}$ $\frac{d}{dx} x^{56} = 56x^{55}$

14. $\frac{d}{dx} x^{57} = 57x^{56}$ $\frac{d}{dx} x^{58} = 58x^{57}$ $\frac{d}{dx} x^{59} = 59x^{58}$ $\frac{d}{dx} x^{60} = 60x^{59}$

15. $\frac{d}{dx} x^{61} = 61x^{60}$ $\frac{d}{dx} x^{62} = 62x^{61}$ $\frac{d}{dx} x^{63} = 63x^{62}$ $\frac{d}{dx} x^{64} = 64x^{63}$

16. $\frac{d}{dx} x^{65} = 65x^{64}$ $\frac{d}{dx} x^{66} = 66x^{65}$ $\frac{d}{dx} x^{67} = 67x^{66}$ $\frac{d}{dx} x^{68} = 68x^{67}$

17. $\frac{d}{dx} x^{69} = 69x^{68}$ $\frac{d}{dx} x^{70} = 70x^{69}$ $\frac{d}{dx} x^{71} = 71x^{70}$ $\frac{d}{dx} x^{72} = 72x^{71}$

18. $\frac{d}{dx} x^{73} = 73x^{72}$ $\frac{d}{dx} x^{74} = 74x^{73}$ $\frac{d}{dx} x^{75} = 75x^{74}$ $\frac{d}{dx} x^{76} = 76x^{75}$

19. $\frac{d}{dx} x^{77} = 77x^{76}$ $\frac{d}{dx} x^{78} = 78x^{77}$ $\frac{d}{dx} x^{79} = 79x^{78}$ $\frac{d}{dx} x^{80} = 80x^{79}$

20. $\frac{d}{dx} x^{81} = 81x^{80}$ $\frac{d}{dx} x^{82} = 82x^{81}$ $\frac{d}{dx} x^{83} = 83x^{82}$ $\frac{d}{dx} x^{84} = 84x^{83}$

21. $\frac{d}{dx} x^{85} = 85x^{84}$ $\frac{d}{dx} x^{86} = 86x^{85}$ $\frac{d}{dx} x^{87} = 87x^{86}$ $\frac{d}{dx} x^{88} = 88x^{87}$

22. $\frac{d}{dx} x^{89} = 89x^{88}$ $\frac{d}{dx} x^{90} = 90x^{89}$ $\frac{d}{dx} x^{91} = 91x^{90}$ $\frac{d}{dx} x^{92} = 92x^{91}$

23. $\frac{d}{dx} x^{93} = 93x^{92}$ $\frac{d}{dx} x^{94} = 94x^{93}$ $\frac{d}{dx} x^{95} = 95x^{94}$ $\frac{d}{dx} x^{96} = 96x^{95}$

24. $\frac{d}{dx} x^{97} = 97x^{96}$ $\frac{d}{dx} x^{98} = 98x^{97}$ $\frac{d}{dx} x^{99} = 99x^{98}$ $\frac{d}{dx} x^{100} = 100x^{99}$

نتیجه گیری

نتیجه گیری: توانایی حل مسئله در این بخش از کتاب ریاضیات پایه ۱، با استفاده از فرمول مشتق توان، به دست آمده است. این فرمول برای مشتق گرفتن از توانهای صحیح مثبت و منفی کاربرد دارد. همچنین در این بخش، مشتق توانهای صحیح مثبت و منفی با استفاده از فرمول مشتق توان، به دست آمده است. این فرمول برای مشتق گرفتن از توانهای صحیح مثبت و منفی کاربرد دارد.

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| <p>1. 1.1 1.2 1.3</p> | |
| <p>1. 1.1 1.2 1.3 1.4 1.5</p> <p>1.5.1 1.5.2</p> | <p>1.1 1.2 1.3 1.4 1.5</p> |
| <p>6. 6.1 6.2 6.3 6.4</p> | |

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