

1. $\frac{d}{dx}(8x^3 + 7x^2 + 10x + 2)$

12.

 $\frac{d}{dx}(4x+5)$

2.

 $\frac{d}{dx}(8x+2)$

13.

 $\frac{d}{dx}(5x^3+7x^2+3x+3)$

3.

 $\frac{d}{dx}(7x^4 + 10x^3 + 4x^2 + x + 5)$

14.

 $\frac{d}{dx}(3x^3+9x^2+10x+5)$

4.

 $\frac{d}{dx}(8x^3 + 3x^2 + 2x + 2)$

15.

 $\frac{d}{dx}(5x^2+7x+4)$

5.

 $\frac{d}{dx}(8x^4+6x^3+10x^2+x+4)$

16.

 $\frac{d}{dx}(2x^3 + 5x^2 + 10x + 8)$

6.

 $\frac{d}{dx}(x^2 + 4x + 5)$

17.

 $\frac{d}{dx}(2x^3+8x^2+7x+9)$

7.

 $\frac{d}{dx}(6x^3+6x^2+2x+6)$

18.

 $\frac{d}{dx}(10x^3 + 8x^2 + 8x + 4)$

8.

 $\frac{d}{dx}(6x^3 + 4x^2 + 8x + 3)$

19.

 $\frac{d}{dx}(4x^2 + 9x + 8)$

9.

 $\frac{d}{dx}(x^3 + 4x^2 + 10x + 9)$

20.

 $\frac{d}{dx}(9x^2+4x+2)$

10.

 $\frac{d}{dx}(7x^2 + 9x + 4)$

21.

 $\frac{d}{dx}(8x^2 + 8x + 4)$

11.

 $\frac{d}{dx}(4x^4 + 5x^3 + x^2 + 4x + 7)$

22.

 $\frac{d}{dx}(5x^2 + 4x + 9)$



$$\frac{d}{dx}(4x^2+7x+7)$$

$$\frac{d}{dx}(x+8)$$

$$\frac{d}{dx}(5x^4+8x^3+6x^2+7x+7)$$

$$\frac{d}{dx}(10x^4 + 9x^3 + 6x^2 + 8x + 9)$$

$$\frac{d}{dx}(8x+5)$$

$$\frac{d}{dx}(9x^4+9x^3+9x^2+8x+3)$$

$$\frac{d}{dx}(7x+8)$$

$$\frac{d}{dx}(3x^3+6x^2+6x+5)$$

$$\frac{d}{dx}(8x^2 + 10x + 1)$$

$$\frac{d}{dx}(3x^2+9x+1)$$

$$\frac{d}{dx}(8x^3 + 9x^2 + 9x + 3)$$

$$\frac{d}{dx}(7x^3 + 5x^2 + 2x + 3)$$

$$\frac{d}{dx}(2x^2 + 9x + 2)$$

$$\frac{d}{dx}(6x^4 + 5x^3 + x^2 + 4x + 6)$$

$$\frac{d}{dx}(2x^2 + 6x + 7)$$

$$\frac{d}{dx}(2x+9)$$

$$\frac{d}{dx}(6x+10)$$

$$\frac{d}{dx}(4x+9)$$

$$\frac{d}{dx}(5x+8)$$

$$\frac{d}{dx}(4x^3 + 9x^2 + 7x + 8)$$

$$\frac{d}{dx}(9x^2 + 2x + 10)$$

$$\frac{d}{dx}(x^3+6x^2+4x+4)$$



$$\frac{d}{dx}(5x^3 + 7x^2 + x + 3)$$

$$\frac{d}{dx}(10x^3 + 7x^2 + 8x + 6)$$

$$\frac{d}{dx}(7x^3 + 2x^2 + 10x + 10)$$

$$\frac{d}{dx}(2x+3)$$

$$\frac{d}{dx}(5x^2 + 7x + 4)$$

$$\frac{d}{dx}(4x^3 + 5x^2 + 10x + 5)$$

$$\frac{d}{dx}(9x^4 + 3x^3 + 2x^2 + 5x + 4)$$

$$\frac{d}{dx}(3x^2 + 5x + 4)$$

$$\frac{d}{dx}(5x^2+8x+3)$$

$$\frac{d}{dx}(3x^3 + 7x^2 + 5x + 8)$$

$$\frac{d}{dx}(x^4+6x^3+3x^2+x+9)$$

$$\frac{d}{dx}(6x+9)$$

$$\frac{d}{dx}(7x^3 + 8x^2 + 2x + 10)$$

$$\frac{d}{dx}(5x+5)$$

$$\frac{d}{dx}(2x^3 + x^2 + 3x + 9)$$

$$\frac{d}{dx}(10x^2+2x+10)$$



Basic Derivation Worksheet Answer Key

1. $24x^2 + 14x + 10$ 12. 4

3. $28x^3 + 30x^2 + 8x + 1$ 14. $9x^2 + 18x + 10$

4. $24x^2 + 6x + 2$ 15. 10x + 7

5. $32x^3 + 18x^2 + 20x + 1$ 16. $6x^2 + 10x + 10$

6. 2x + 4 17. $6x^2 + 16x + 7$

7. $18x^2 + 12x + 2$ 18. $30x^2 + 16x + 8$

8. $18x^2 + 8x + 8$ 19. 8x + 9

9. $3x^2 + 8x + 10$ 20. 18x + 4

10. 14x + 9 21. 16x + 8

11. $16x^3 + 15x^2 + 2x + 4$ 22. 10x + 4



23.	8 <i>x</i> + 7	34.	1
24.	$20x^3 + 24x^2 + 12x + 7$	35.	$40x^3 + 27x^2 + 12x + 8$
25.	8	36.	$36x^3 + 27x^2 + 18x + 8$
26.	7	37.	$9x^2 + 12x + 6$
27.	16 <i>x</i> + 10	38.	6 <i>x</i> + 9
28.	$24x^2 + 18x + 9$	39.	$21x^2 + 10x + 2$
29.	4 <i>x</i> + 9	40.	$24x^3 + 15x^2 + 2x + 4$
30.	4 <i>x</i> + 6	41.	2
31.	6	42.	4

32. $43. 12x^2 + 18x + 7$

33. 18x + 2 44. $3x^2 + 12x + 4$



45.

$$15x^2 + 14x + 1$$

56.

$$30x^2 + 14x + 8$$

46.

$$21x^2 + 4x + 10$$

57.

2

47.

$$10x + 7$$

58.

$$12x^2 + 10x + 10$$

48.

$$36x^3 + 9x^2 + 4x + 5$$

59.

$$6x + 5$$

49.

$$10x + 8$$

60.

$$9x^2 + 14x + 5$$

50.

$$4x^3 + 18x^2 + 6x + 1$$

51.

6

52.

$$21x^2 + 16x + 2$$

53.

5

54.

$$6x^2 + 2x + 3$$

55.

$$20x + 2$$