Basic Derivation Worksheet

1. $\frac{d}{dx}(5x^2 + 9x + 7)$

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

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

4. $\frac{d}{dx}(2x^2 + 2x + 1)$

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

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

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

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

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

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

11. $\frac{d}{dx}(3x + 8)$

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

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

14. $\frac{d}{dx}(8x + 6)$

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

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

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

18. $\frac{d}{dx}(7x + 6)$

19. $\frac{d}{dx}(10x^4 + 7x^3 + 8x^2 + 4x + 10)$

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

21. $\frac{d}{dx}(7x^4 + 10x^3 + 2x^2 + 9x + 5)$

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

23. $\frac{d}{dx}(10x^4 + 9x^3 + 7x^2 + 3x + 10)$

24. $\frac{d}{dx}(5x + 10)$

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

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

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

28. $\frac{d}{dx}(8x^2 + 2x + 6)$

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

30. $\frac{d}{dx}(5x^4 + 9x^3 + 4x^2 + 8x + 10)$

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

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

33. $\frac{d}{dx}(8x^3 + 4x^2 + 10x + 1)$

34. $\frac{d}{dx}(9x^2 + 5x + 1)$

35. $\frac{d}{dx}(x^2 + 8x + 6)$

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

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

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

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

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

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

42. $\frac{d}{dx}(9x + 7)$

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

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

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

46. $\frac{d}{dx}(10x + 7)$

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

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

49. $\frac{d}{dx}(7x + 4)$

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

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Answer Key

1. $10x + 9$

2. $9x^2 + 10x + 7$

3. $40x^3 + 12x^2 + 10x + 3$

4. $4x + 2$

5. $20x + 8$

6. 10

7. 3

8. $14x + 2$

9. $4x + 6$

10. $24x^2 + 20x + 9$

11. 3

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12. $15x^2 + 8x + 6$

13. $9x^2 + 4x + 3$

14. 8

15. $24x^2 + 14x + 9$

16. 8

17. $9x^2 + 6x + 1$

18. 7

19. $40x^3 + 21x^2 + 16x + 4$

20. 1

21. $28x^3 + 30x^2 + 4x + 9$

22. 8

23. $40x^3 + 27x^2 + 14x + 3$

24.   5

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25. $6x^2 + 14x + 7$

26. $20x + 4$

27. 10

28. $16x + 2$

29. $12x^3 + 9x^2 + 4x + 9$

30. $20x^3 + 27x^2 + 8x + 8$

31. $12x^3 + 18x^2 + 4x + 2$

32. 8

33. $24x^2 + 8x + 10$

34. $18x + 5$

35. $2x + 8$

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36. $20x^3 + 30x^2 + 4x + 10$

37. $6x^2 + 8x + 4$

38. $28x^3 + 6x^2 + 16x + 4$

39. $6x^2 + 6x + 1$

40. $4x + 7$

41. 1

42. 9

43. $30x^2 + 18x + 6$

44. $3x^2 + 4x + 5$

45. $3x^2 + 12x + 7$

46. 10

47. $12x^3 + 6x^2 + 12x + 1$

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48. $\qquad$ $4x + 4$

49.   7

50. $24x^3 + 30x^2 + 8x + 10$