



# Basic Integration Worksheet

1.  $\int_1^{10} (4x^3 + 9x^2 + 6x^1 + 1) dx$

2.  $\int_0^8 (6x^3 + 3x^2 + 5x^1 + 9) dx$

3.  $\int_2^5 (1x^3 + 6x^2 + 8x^1 + 9) dx$

4.  $\int_1^5 (8x^2 + 2x^1 + 5) dx$

5.  $\int_2^5 (2x^1 + 9) dx$

6.  $\int_5^9 (1x^1 + 9) dx$

7.  $\int_5^{11} (6x^3 + 5x^2 + 2x^1 + 8) dx$

8.  $\int_2^6 (9x^1 + 6) dx$

9.  $\int_2^{12} (1x^2 + 1x^1 + 7) dx$

10.  $\int_3^{10} (9x^2 + 9x^1 + 10) dx$

11.  $\int_0^{10} (1x^1 + 8) dx$

12.  $\int_1^2 (5x^2 + 4x^1 + 6) dx$

13.  $\int_2^7 (7x^2 + 10x^1 + 10) dx$

14.  $\int_0^1 (8x^2 + 2x^1 + 4) dx$

15.  $\int_3^4 (7x^1 + 5) dx$

16.  $\int_0^4 (1x^3 + 4x^2 + 9x^1 + 8) dx$

17.  $\int_0^5 (3x^3 + 4x^2 + 10x^1 + 8) dx$

18.  $\int_1^2 (6x^3 + 3x^2 + 6x^1 + 10) dx$

19.  $\int_1^6 (2x^1 + 1) dx$

20.  $\int_2^4 (7x^3 + 9x^2 + 3x^1 + 6) dx$

21.  $\int_2^8 (8x^2 + 6x^1 + 1) dx$

22.  $\int_4^{12} (4x^2 + 3x^1 + 4) dx$



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23.  $\int_3^8 (4x^3 + 6x^2 + 4x^1 + 4) dx$
24.  $\int_0^2 (1x^3 + 5x^2 + 9x^1 + 8) dx$
25.  $\int_2^{11} (4x^1 + 9) dx$
26.  $\int_2^7 (9x^1 + 6) dx$
27.  $\int_3^7 (7x^3 + 6x^2 + 8x^1 + 6) dx$
28.  $\int_4^{13} (2x^3 + 2x^2 + 5x^1 + 9) dx$
29.  $\int_1^3 (2x^3 + 2x^2 + 10x^1 + 2) dx$
30.  $\int_5^{10} (10x^3 + 7x^2 + 2x^1 + 7) dx$
31.  $\int_3^8 (4x^1 + 10) dx$
32.  $\int_4^{13} (4x^2 + 10x^1 + 2) dx$
33.  $\int_4^9 (2x^1 + 9) dx$
34.  $\int_3^6 (10x^3 + 5x^2 + 5x^1 + 5) dx$
35.  $\int_0^2 (2x^3 + 2x^2 + 1x^1 + 2) dx$
36.  $\int_4^{10} (3x^3 + 8x^2 + 3x^1 + 5) dx$
37.  $\int_3^4 (9x^3 + 2x^2 + 7x^1 + 4) dx$
38.  $\int_0^8 (4x^1 + 8) dx$
39.  $\int_0^7 (2x^2 + 8x^1 + 6) dx$
40.  $\int_3^6 (8x^1 + 8) dx$
41.  $\int_2^3 (7x^2 + 3x^1 + 2) dx$
42.  $\int_2^7 (2x^1 + 9) dx$
43.  $\int_3^{12} (8x^3 + 9x^2 + 10x^1 + 7) dx$
44.  $\int_5^7 (1x^1 + 8) dx$



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45.  $\int_3^{11} (6x^1 + 4) dx$

46.  $\int_1^8 (9x^1 + 10) dx$

47.  $\int_3^{10} (1x^2 + 7x^1 + 7) dx$

48.  $\int_4^{12} (9x^1 + 8) dx$

49.  $\int_0^6 (8x^2 + 1x^1 + 5) dx$

50.  $\int_5^6 (9x^3 + 8x^2 + 7x^1 + 3) dx$



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## Answer Key

1.	13302	12.	23.667
2.	6888	13.	1056.667
3.	497.25	14.	7.667
4.	374.667	15.	29.5
5.	48	16.	253.333
6.	64	17.	800.417
7.	23178	18.	48.5
8.	168	19.	40
9.	713.333	20.	618
10.	3398.5	21.	1530
11.	130	22.	2442.667



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23.	5115	34.	3435
24.	51.333	35.	19.333
25.	315	36.	9960
26.	232.5	37.	446.917
27.	4876	38.	192
28.	16038	39.	466.667
29.	101.333	40.	132
30.	25589.167	41.	53.833
31.	160	42.	90
32.	3627	43.	47151
33.	110	44.	28



# Basic Integration Worksheet

45. 368

46. 353.5

47. 691.833

48. 640

49. 624

50. 1793.917