Basic Integration Worksheet

1. $\int_{5}^{7}(3x^3 + 6x^2 + 2x^1 + 3)\,dx$

2. $\int_{3}^{11}(4x^3 + 9x^2 + 8x^1 + 4)\,dx$

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

4. $\int_{4}^{11}(2x^1 + 4)\,dx$

5. $\int_{0}^{8}(6x^1 + 1)\,dx$

6. $\int_{3}^{6}(9x^1 + 1)\,dx$

7. $\int_{5}^{11}(1x^1 + 4)\,dx$

8. $\int_{0}^{7}(2x^2 + 10x^1 + 4)\,dx$

9. $\int_{3}^{8}(4x^1 + 9)\,dx$

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

11. $\int_{4}^{13}(8x^3 + 9x^2 + 4x^1 + 10)\,dx$

12. $\int_{5}^{15}(8x^2 + 1x^1 + 2)\,dx$

13. $\int_{2}^{7}(9x^2 + 9x^1 + 9)\,dx$

14. $\int_{5}^{8}(8x^3 + 7x^2 + 4x^1 + 1)\,dx$

15. $\int_{2}^{3}(10x^2 + 8x^1 + 9)\,dx$

16. $\int_{1}^{5}(5x^3 + 5x^2 + 4x^1 + 2)\,dx$

17. $\int_{4}^{8}(4x^1 + 1)\,dx$

18. $\int_{4}^{7}(7x^2 + 4x^1 + 2)\,dx$

19. $\int_{3}^{4}(8x^3 + 3x^2 + 8x^1 + 8)\,dx$

20. $\int_{0}^{5}(1x^1 + 1)\,dx$

21. $\int_{1}^{6}(1x^3 + 6x^2 + 9x^1 + 7)\,dx$

22. $\int_{5}^{14}(3x^1 + 1)\,dx$

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23. $\displaystyle\int_5^9 (7x^1 + 7)\,dx$

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24. $\int_3^{10} (3x^1 + 7)\, dx$

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25. $\int_{3}^{10} (2x^3 + 2x^2 + 5x^1 + 8)\, dx$

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Answer Key

1. 1798

2. 18952

3. 149.333

4. 133

5. 200

6. 124.5

7. 72

8. 501.667

9. 155

10. 479.25

11. 63405

12. 8786.667

13. 1252.5

14. 7926

15. 92.333

16. 1042.667

17. 100

18. 723

19. 423

20. 17.5

21. 946.25

22. 265.5

23. 224

24. 185.5

25. 5891.667