Basic Integration Worksheet

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

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

3. $\int_{0}^{4}(4x^3 + 4x^2 + 1x^1 + 6)\,dx$

4. $\int_{4}^{6}(5x^1 + 7)\,dx$

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

6. $\int_{2}^{5}(4x^2 + 6x^1 + 4)\,dx$

7. $\int_{1}^{5}(7x^1 + 9)\,dx$

8. $\int_{4}^{12}(2x^2 + 9x^1 + 10)\,dx$

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

10. $\int_{4}^{12}(3x^3 + 8x^2 + 5x^1 + 3)\,dx$

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Answer Key

1.

    876.75

2.

    699

3.

    373.333

4.

    64

5.

    37.5

6.

    231

7.

    120

8.

    1765.333

9.

    150

10.

    20141.333