



Basic Derivation Worksheet

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

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

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

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

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

6. $\frac{d}{dx}(5x + 1)$

7. $\frac{d}{dx}(4x + 10)$

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

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

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



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Answer Key

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|----|--------------------|-----|--------------------|
| 1. | $18x^2 + 16x + 10$ | 2. | $27x^2 + 8x + 9$ |
| 3. | 9 | 4. | $15x^2 + 6x + 5$ |
| 5. | $8x + 3$ | 6. | 5 |
| 7. | 4 | 8. | $18x + 3$ |
| 9. | $6x + 7$ | 10. | $30x^2 + 16x + 10$ |