



Basic Derivation Worksheet

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

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

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

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

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

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

7. $\frac{d}{dx}(3x^2 + 9x + 1)$

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

9. $\frac{d}{dx}(10x^4 + 2x^3 + 9x^2 + 7x + 8)$

10. $\frac{d}{dx}(9x + 6)$



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Answer Key

1.

$$9x^2 + 2x + 1$$

2.

$$6x + 5$$

3.

$$8x^3 + 6x^2 + 6x + 5$$

4.

$$12x + 10$$

5.

$$18x + 8$$

6.

$$6$$

7.

$$6x + 9$$

8.

$$6x^2 + 16x + 4$$

9.

$$40x^3 + 6x^2 + 18x + 7$$

10.

$$9$$