



# Basic Derivation Worksheet

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

2.  $\frac{d}{dx}(4x^4 + 7x^3 + 8x^2 + x + 6)$

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

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

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

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

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

8.  $\frac{d}{dx}(5x^3 + 4x^2 + 8x + 2)$

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

10.  $\frac{d}{dx}(8x^4 + 7x^3 + x^2 + 10x + 6)$



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## Answer Key

1.

$$10x + 9$$

2.

$$16x^3 + 21x^2 + 16x + 1$$

3.

$$12x + 3$$

4.

$$2x + 6$$

5.

$$6x + 1$$

6.

$$6$$

7.

$$9$$

8.

$$15x^2 + 8x + 8$$

9.

$$2x + 1$$

10.

$$32x^3 + 21x^2 + 2x + 10$$