



## Maximum and Minimum Points

 Find the maximum and minimum points of the function.

1)  $f(x) = 2x^2 - 4x + 6$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

2)  $f(x) = x^3 + 4x + 1$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

3)  $f(x) = x^3 - 3x + 2$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

4)  $f(x) = 3x^2 + 4x + 3$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

5)  $f(x) = 4x^2 - 3$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

6)  $f(x) = x^3 + x^2 - 8x - 6$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

7)  $f(x) = \frac{4}{x^2+2}$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

8)  $f(x) = x^3 + 2x$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

9)  $f(x) = -x^3 - 6x^2 - 9x + 2$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

10)  $f(x) = 4x^2 - 16x + 3$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

11)  $f(x) = 9x + \frac{1}{x}$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

12)  $f(x) = \frac{x}{(1+x)^2}$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

13)  $f(x) = 3x^4 - 8x^3 + 6$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_

14)  $f(x) = -2x^3 - 4x^2 + 2$

Maximum: \_\_\_\_\_

Minimum: \_\_\_\_\_