

Quadratic Function - Max or Min

Find the maximum or minimum value of each quadratic function.

1) $f(x) = 4x^2 - 16x - 1$

2) $f(x) = 3x^2 - 4x + \frac{9}{5}$

Minimum value : _____

Minimum value : _____

3) $f(x) = -x^2 + 2x - 28$

4) $f(x) = -36x^2 - 48x + 7$

Maximum value : _____

Maximum value : _____

5) $f(x) = 15x^2 + 10x - 2$

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Maximum value : $\frac{7}{2}$

Minimum value : _____

Minimum value : _____

7) $f(x) = -\frac{1}{4}x^2 + \frac{5}{2}x$

Maximum value : $+\frac{22}{6}$

Maximum value : _____

Minimum value : _____

9) $f(x) = -10x^2 - 5x - 3$

10) $f(x) = -2x^2 + 12x + 4$

Maximum value : _____

Maximum value : _____

Quadratic Function - Max or Min

Find the maximum or minimum value of each quadratic function.

1) $f(x) = 4x^2 - 16x - 1$

2) $f(x) = 3x^2 - 4x + \frac{9}{5}$

Minimum value : **-17** Minimum value : **$\frac{7}{15}$**

3) $f(x) = -x^2 + 2x - 28$

4) $f(x) = -36x^2 - 48x + 7$

Maximum value : _____

Minimum value : **23**

5) $f(x) = 15x^2 + 10x - 2$

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Maximum value : **$\frac{7}{2}$**

Minimum value : _____

Minimum value : **$-\frac{67}{10}$**

7) $f(x) = -\frac{1}{4}x^2 + \frac{5}{2}x$

Maximum value : **$\frac{22}{6}$** Maximum value : **$-\frac{2}{2}$** Minimum value : **$\frac{17}{9}$**

9) $f(x) = -10x^2 - 5x - 3$

10) $f(x) = -2x^2 + 12x + 4$

Maximum value : **$-\frac{19}{8}$** Maximum value : **22**