

Quadratic Function - Max or Min

Find the maximum or minimum value of each quadratic function.

1) $f(x) = x^2 + 10x + 19$

2) $f(x) = -9x^2 + 42x - 53$

Minimum value : _____

Maximum value : _____

3) $f(x) = 3x^2 - 4x + \frac{11}{5}$

4) $f(x) = 2x^2 - 20x - 13$

Minimum value : _____

Maximum value : _____

5) $f(x) = -16x^2 + 24x - 7$

Maximum value : _____

Minimum value : _____

7) $f(x) = -5x^2 + 16x - 7$

Maximum value : _____

Minimum value : _____

9) $f(x) = \frac{1}{16}x^2 + \frac{3}{4}x + \frac{21}{4}$

10) $f(x) = -\frac{1}{8}x^2 - \frac{2}{3}x + 3$

Minimum value : _____

Maximum value : _____

PREVIEW

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Quadratic Function - Max or Min

Sheet 1

Find the maximum or minimum value of each quadratic function.

1) $f(x) = x^2 + 10x + 19$

2) $f(x) = -9x^2 + 42x - 53$

Minimum value : -6 Maximum value : -4

3) $f(x) = 3x^2 - 4x + \frac{11}{5}$

4) $f(x) = 2x^2 - 20x - 13$

Minimum value : _____

Maximum value : -63

5) $f(x) = -16x^2 + 24x - 7$

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Minimum value : _____

Maximum value : _____

Maximum value : $\frac{81}{4}$

7) $f(x) = -5x^2 + 16x - 7$

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Minimum value : _____

Maximum value : $\frac{1}{5}$ Minimum value : $-\frac{1}{16}$

9) $f(x) = \frac{1}{16}x^2 + \frac{3}{4}x + \frac{21}{4}$

10) $f(x) = -\frac{1}{8}x^2 - \frac{2}{3}x + 3$

Minimum value : 3 Maximum value : $\frac{35}{9}$