

Quadratic Function - Max or Min

Find the maximum or minimum value of each quadratic function.

1) $f(x) = -16x^2 - 20x - 7$

2) $f(x) = x^2 + 10x - 17$

Maximum value : _____

Minimum value : _____

3) $f(x) = -x^2 + 8x - 9$

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

Maximum value : _____

Minimum value : _____

5) $f(x) = 8x^2 + 24x + 1$

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$\frac{1}{4}x + \frac{9}{8}$

Minimum value : _____

Minimum value : _____

7) $f(x) = 4x^2 - 12x - 12$

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$x - \frac{49}{3}$

Minimum value : _____

Maximum value : _____

9) $f(x) = -2x^2 + 6x - \frac{55}{2}$

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

Maximum value : _____

Minimum value : _____

Quadratic Function - Max or Min

Sheet 3

Find the maximum or minimum value of each quadratic function.

1) $f(x) = -16x^2 - 20x - 7$

2) $f(x) = x^2 + 10x - 17$

Maximum value : $-\frac{3}{4}$ Minimum value : -42

3) $f(x) = -x^2 + 8x - 9$

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

Maximum value : _____

Minimum value : $\frac{19}{3}$

5) $f(x) = 8x^2 + 24x + 1$

PREVIEW

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$\frac{1}{4}x + \frac{9}{8}$

Minimum value : _____

Maximum value : $\frac{7}{8}$

7) $f(x) = 4x^2 - 12x - 12$

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$x - \frac{49}{3}$

Minimum value : -21 Maximum value : $-\frac{49}{12}$

9) $f(x) = -2x^2 + 6x - \frac{55}{2}$

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

Maximum value : -23 Minimum value : $\frac{1}{28}$