Name : _____ Score : _____

Quadratic Function - Max or Min

Sheet 1

Find the maximum or minimum value of each quadratic function.

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

Minimum value : _____

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

Maximum value : _____

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

Minimum value : _____

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

Maximum value : _____

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

e : _____

+ 18

Maximum value : _____

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

e : _____

)

Maximum value : _____

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

Minimum value : _____

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

Minimum value : _____

Maximum value : _____

Name : _____ **Answer key** Score : _____

Quadratic Function - Max or Min

Sheet 1

Find the maximum or minimum value of each quadratic function.

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

Minimum value : **−6**

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

Maximum value : **−4**

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

Minimum value : _____

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

e : **−63**

5) $f(x) = -16x^2 + 24x -$ + 18

Maximum value : _____

e : **$\frac{81}{4}$**

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

Maximum value : **$\frac{-}{5}$**

Minimum value : **$-\frac{1}{16}$**

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

Minimum value : **3**

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

Maximum value : **$\frac{35}{9}$**