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

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

Minimum value : _____

value : _____

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

$x + 18$

Maximum value : _____

value : _____

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

)

Maximum value : _____

Minimum value : _____

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

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

Minimum value : _____

Maximum value : _____