Solution To find the vertex, we look at the coefficients in the function $\mathsf{t}(\mathsf{n}) = \mathsf{an}^2 + \mathsf{bn} + \mathsf{c}$

Therefore, the vertex of the graph of f is $(-\frac{3}{2}, -\frac{19}{2})$

The second coordinate of the vertex is $t(-\frac{3}{2}) = 2(-\frac{3}{2})^2 + 6(-\frac{3}{2}) - 5$

The first coordinate of the vertex has the formula: $\frac{-b}{2a}$ now, plugging into formula to get:

 $\frac{-b}{2a} = -\frac{6}{2(2)} = -\frac{3}{2}$

in this equation, a=2 and b=6