Solution

To find the vertex, we look at the coefficients in the function $n(e) = ae^2 + be + c$ in this equation, a = 1 and b = 6

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

 $\frac{-b}{2a} = -\frac{6}{2(1)} = -3$

The second coordinate of the vertex is $n(-3) = 1(-3)^2 + 6(-3) - 5$

Therefore, the vertex of the graph of f is (-3,-14)