of the vertex by finding $t(-\frac{3}{2}) = 2(-\frac{3}{2})^2 + 6(-\frac{3}{2}) - 11 = \frac{9}{2} - 9 - 11 = -\frac{31}{2}$ Minimum = $-\frac{31}{2}$

Since a.g. we know that the t-coordinate of the vertex is a minimum. However to find the t-coordinate of our vertex we first need to find the k-coordinate of the vertex by using k-b-6-3. Now that we have the k-coordinate, we can find the t-coordinate

Salution Quadratic function: is a function that can be written in the form: t(k)=ak²+bk+c where a, b, and c are real numbers and a+0 we have $t(k) = 2k^2 + 6k - 11$, note: $2k^2 + 6k - 11$ is in kt-plane

Here, we know that a=2, b=6, c=-11