Quadratic function: is a function that can be written in the form:

Salution t(d)=ad2-bd+c where a, b, and c are real numbers and a+0

we have t/d)=2d2+11d+24, note: 2d2+11d+24 is in dt-plane

Here, we know that a=2, b=11, c=24

Since a>0 ,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 d-coordinate of the vertex by using $d=-\frac{b}{b}=-\frac{11}{2}=-\frac{11}{2}$. Now that we have the d-coordinate, we can find the t-coordinate of our vertex we first need to find the d-coordinate of the vertex by using $d=-\frac{b}{b}=-\frac{11}{2}=-\frac{11}{2}$. Now that we have the d-coordinate, we can find the t-coordinate of the vertex by using $d=-\frac{b}{b}=-\frac{11}{2}=-\frac{11}{2}$. Now that we have the d-coordinate, we can find the t-coordinate of the vertex by using $d=-\frac{b}{b}=-\frac{11}{2}=-\frac{11}{2}$. Now that we have the d-coordinate of the vertex by using $d=-\frac{b}{b}=-\frac{11}{2}=-\frac{11}{2}$.

of the vertex by finding $t(-\frac{11}{2}) = 2(-\frac{11}{2})^2 + 11(-\frac{11}{2}) + 24 = \frac{121}{2} - \frac{121}{2} + 24 = \frac{71}{2}$ Minimum = $\frac{71}{2}$