Quadratic function: is a function that can be written in the form: e(t)=at2+bt+c where a, b, and c are real numbers and a=0

Since a>0 , we know that the e-coordinate of the vertex is a minimum. However, to find the e-coordinate of our vertex we first need to find the t-coordinate of the vertex by using t=-b-2-3 Now that we have the t-coordinate, we can find the e-coordinate

we have e(t)=2t2-12t-12, note: 2t2-12t-12 is in te-plane

of the vertex by finding e(3)=2(3)2-12(3)-12-18-36-12--38 Minimum--38

Here, we know that a-2, b-_12, c-_12

Solution