Quadratic function: is a function that can be written in the form: h(u)=au2+bu+c where a. b. and c are real numbers and a=0 we have how =3 u2 = 12 u = 11. note: 3 u2 = 12 u = 11 is in uh_nlane Here, we know that a-3, b-_12, c-_11 Since a>0 , we know that the h-coordinate of the vertex is a minimum. However, to find the h-coordinate of our vertex we first need to find the u-coordinate of the vertex by using u=-b-22-2 Now that we have the u-coordinate, we can find the h-coordinate

Solution

of the vertex by finding h(2)=3(2)2-12(2)-11-12-24-11--23 Minimum--23