Solution

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

u(i)=ai2+bi+c where a, b, and c are real numbers and a=0

we have $u(j) = j^2 + 12j + 10$, note: $j^2 + 12j + 10$ is in iu - plane

Since a > 0, we know that the u-coordinate of the vertex is a minimum. However, to find the u-coordinate of our vertex we first need to find the j-coordinate of the vertex by using $j = -\frac{b}{2} = -\frac{12}{2} = -6$ Now that we have the j-coordinate, we can find the u-coordinate of our vertex we first need to find the j-coordinate of the vertex by using $j = -\frac{b}{2} = -\frac{12}{2} = -6$ Now that we have the j-coordinate, we can find the u-coordinate of the vertex by using $j = -\frac{b}{2} = -\frac{12}{2} = -6$ Now that we have the j-coordinate of the vertex by using $j = -\frac{b}{2} = -\frac{12}{2} = -6$ Now that we have the j-coordinate of the vertex by using $j = -\frac{b}{2} = -\frac{12}{2} = -6$ Now that j-coordinate j-c

of the vertex by finding u(-6)=1(-6)2+12(-6)+10-36-72+10--26 Minimum--26

Here we know that a-1, b-12, c-18