Solution Quadratic function: is a function that can be written in the form: $u(y)=ay^2+by+c$ where a, b, and c are real numbers and $a+\theta$ we have $u(v) = v^2 - 2v + 19$, note: $v^2 - 2v + 19$ is in vu-plane Here, we know that a=1, b=-2, c=19 Since a B , 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 y-coordinate of the vertex by using y = $\frac{b}{b}$ = $-\frac{2}{b}$ = 1 Now that we have the y-coordinate, we can find the u-coordinate of the vertex by finding u(1)-1(1)2-2(1)+19-1-2+19-18 Minimum-18