Solution Quadratic function: is a function that can be written in the form: g(u) =au2+bu+c where a, b, and c are real numbers and a±0 we have g(u)=2 u² +8 u - 21, note: 2 u² +8 u - 21 is in ug-plane Here we know that a-2 b-8 c--21 Since a B , we know that the g-coordinate of the vertex is a minimum. However, to find the g-coordinate of our vertex we first need to find the u-coordinate of the vertex by using u= -b = -8 = -2 Now that we have the u-coordinate, we can find the g-coordinate of the vertex by finding g(-2)-2(-2)2+8(-2)-21-8-16-21--29 Minimum--29