Solution Quadratic function: is a function that can be written in the form: u(e)-ae2_be_c where a. b. and c are real numbers and a+0. we have u/e/=2e2-4e-12, note: 2e2-4e-12 is in eu-plane Here, we know that a=2, b=-4, c=-12 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 e-coordinate of the vertex by using e-b--4-1 Now that we have the e-coordinate, we can find the u-coordinate of our vertex we first need to find the e-coordinate of the vertex by using e-b--4-1 Now that we have the e-coordinate. of the vertex by finding u(1)-2(1)2-4(1)-12-2-4-12--14 Minimum--14