Solution Quadratic function: is a function that can be written in the form: g(d)=ad2_bd_c where a. b. and c are real numbers and a+0. we have g(d)=2d2-4d+24, note: 2d2-4d+24 is in dg-plane Here, we know that a=2, b=-4, c=24 Since a 0 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 d-coordinate of the vertex by using d-b--4-1 Now that we have the d-coordinate, we can find the g-coordinate of our vertex we first need to find the d-coordinate of the vertex by using d-b--4-1 Now that we have the d-coordinate. of the vertex by finding a(1)-2(1)2-4(1)+24-2-4+24-22 Minimum-22