Solution Quadratic function: is a function that can be written in the form: p(f)=af2+bf+c where a, b, and c are real numbers and az0 we have n(f)=f2+14f=6. note: f2+14f=6 is in fn-nlane. Here we know that a-1, b-14, c--6 Since a b g, we know that the p-coordinate of the vertex is a minimum. However, to find the p-coordinate of our vertex we first need to find the f-coordinate of the vertex by using f=- b-- = - 1 = - 7. Now that we have the f-coordinate, we can find the p-coordinate of the p-coordinate of the vertex by using f=- b-- = - 1 = of the vertex by finding p(-7)=1(-7)2+14(-7)-6-49-98-6--55 Minimum--55