Solution Quadratic function: is a function that can be written in the form: siel-ae²-be-c where a. b. and c are real numbers and a+0. we have s(e)=e²-6e-24, note: e²-6e-24 is in es-plane Here, we know that a=1, b=-6, c=-24 Since a 0 we know that the s-coordinate of the vertex is a minimum, However, to find the s-coordinate of our vertex we first need to find the e-coordinate of the vertex by using e-b--6-3 Now that we have the e-coordinate, we can find the s-coordinate of our vertex we first need to find the e-coordinate of the vertex by using e-b--6-3 Now that we have the e-coordinate. of the vertex by finding s(3)=1(3)2-6(3)-24-9-18-24--33 Minimum--33