Solution Quadratic function: is a function that can be written in the form: e(p)=ap2+bp+c where a, b, and c are real numbers and a=0 we have e(p)=2p2+12p-3, note: 2p2+12p-3 is in pe-plane Here we know that a-2, b-12, c-3 Since a b g, we know that the e-coordinate of the vertex is a minimum. However, to find the e-coordinate of our vertex we first need to find the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate, we can find the e-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate, we can find the e-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate, we can find the e-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using p:- b = -12 = -3 Now that we have the p-coordinate of the vertex by using of the vertex by finding e(-3)=2(-3)2+12(-3)-3-18-36-3--21 Minimum--21