Solution

Quadratic function: is a function that can be written in the form:

r(h)=ah2+bh+c where a, b, and c are real numbers and a=0

we have rib = 3 h2 + 12 h + 8. note: 3 h2 + 12 h + 8 is in br-plane

Here we know that a-3, b-12, c-8

Since a>0 , we know that the r-coordinate of the vertex is a minimum. However, to find the r-coordinate of our vertex we first need to find the h-coordinate of the vertex by using h=- b- = -12 = -2 Now that we have the h-coordinate, we can find the r-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate, we can find the r-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of the vertex by using h=- b- = -22 Now that we have the h-coordinate of t

of the vertex by finding r(-2)-3(-2)2+12(-2)+8-12-24+8--4 Minimum--4