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

m(p)=ap²+bp+c where a, b, and c are real numbers and a+0

we have m(p)=3p2-15p+10, note: 3p2-15p+10 is in pm-plane

Here, we know that a=3, b=-15, c=10

Since a> θ ,we know that the m-coordinate of the vertex is a minimum. However, to find the m-coordinate of our vertex we first need to find the p-coordinate of the vertex by using $p = -\frac{b}{b_0} = -\frac{1b}{2} = \frac{2}{b}$ Now that we have the p-coordinate, we can find the m-coordinate of coordinate of the vertex by using $p = -\frac{b}{b_0} = -\frac{1b}{2} = \frac{2}{b}$ Now that we have the p-coordinate, we can find the m-coordinate of the vertex by using $p = -\frac{b}{b_0} = -\frac{1b}{2} = \frac{2}{b} = \frac{2}{b}$ Now that we have the p-coordinate, we can find the m-coordinate of the vertex by using $p = -\frac{b}{b_0} = -\frac{1b}{2} = \frac{2}{b} = \frac{2}{b}$ Now that we have the p-coordinate of the vertex by using $p = -\frac{b}{b_0} = -\frac{1b}{2} = \frac{2}{b} = \frac{2}{b$

of the vertex by finding $m(\frac{5}{2}) = 3(\frac{5}{2})^2 - 15(\frac{5}{2}) + 10 = \frac{75}{2} - \frac{75}{2} + 10 = -\frac{35}{2}$ Minimum = $-\frac{35}{2}$