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

v(f)=af2+bf+c where a, b, and c are real numbers and a+0

we have $v(f) = 3f^2 - 5f + 8$, note: $3f^2 - 5f + 8$ is in fv - plane



Since a>0 ,we know that the v-coordinate of the vertex is a minimum. However,to find the v-coordinate of our vertex we first need to find the f-coordinate of the vertex by using f=-\frac{b}{b}-2\frac{b}{2}=\frac{b}{2}\$. Now that we have the f-coordinate, we can find the v-coordinate of the vertex by using f=-\frac{b}{b}-2-\frac{b}{2}=\frac{b}{2}\$. Now that we have the f-coordinate, we can find the v-coordinate of the vertex by using f=-\frac{b}{b}-2-\frac{b}{2}=\frac{b}{2}\$. Now that we have the f-coordinate, we can find the v-coordinate of the vertex by using f=-\frac{b}{b}-2-\frac{b}{2}=\frac{b}{2}\$. Now that we have the f-coordinate of the vertex by using f=-\frac{b}{b}-2-\frac{b}{2}=\frac{b}{2}\$.

of the vertex by finding $v(\frac{5}{2}) = 3(\frac{5}{2})^2 - 5(\frac{5}{2}) + 8 = \frac{25}{22} - \frac{25}{22} + 8 = \frac{71}{22}$ Minimum = $\frac{7}{2}$