1.27
$$f(x) = ax^{2} + bx + c$$
 $(1, 2), (-1, 6), (2, 3)$

$$\begin{bmatrix}
1 & 1 & | & 2 \\
1 & -1 & | & 6 \\
4 & 2 & | & 3
\end{bmatrix} = \begin{bmatrix}
2 & 0 & 2 & | & 8 \\
1 & -1 & | & 6 \\
0 & -2 & -3 & -5
\end{bmatrix} = \begin{bmatrix}
1 & 0 & | & 4 \\
0 & -1 & 0 & | & 2 \\
0 & -2 & -3 & | & 5
\end{bmatrix}$$

$$r_{1} = r_{1} + r_{2} \qquad r_{2} = r_{2} + (-1)r_{1}$$

$$= > \begin{bmatrix}
1 & 0 & | & | & 4 \\
0 & -1 & 0 & | & 2 \\
0 & 0 & -3 & | & -9
\end{bmatrix} = > \begin{bmatrix}
1 & 0 & 0 & | & 1 \\
0 & -1 & 0 & | & 2 \\
0 & 0 & -1 & | & -3
\end{bmatrix} \qquad a = 1$$

$$r_{1} = r_{1} + r_{3}$$

$$f(x) = x^{2} - 2x + 3$$