Linear and Quadratic Interpolation

Consider the points $(0, 0)$, $(1, 1)$ and $(2, 1)$.

(a) Find the quadratic polynomial that interpolates these points. What are the interpolated y-values at $x = 1/2$ and $x = 3/2$?

(b) Find the two piecewise linear polynomials that interpolate these points. What are the interpolated y-values at $x = 1/2$ and $x = 3/2$?

(c) Use MATLAB to plot the three points and the two interpolating functions.

Completed **Go to next item**

Like **Dislike** **Report an issue**