Spring 2021 Interpolation - Chapter 5 -Part 1

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1.   Given n+1 data points, a unique polynomial of degree _____ passes through the n+1 data points

○ n+1

○ n+1 or less

○ n

○ n or less

2. If a polynomial of degree n has more than n zeros, then the polynomial is

○ oscillatory

○ zero everywhere

○ quadratic

○ not defined

3. The following velocity vs time data is given. To find the velocity at t=14.9s the three time data points you would choose for second order polynomial interpolation are

Time (s)	0	15	18	22	24
Velocity (m/s)	22	24	37	25	123

○ 0,15,18

○ 15,18,22

○ 0,15,22

○ 0,18,24

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