

# Homework 10

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## 1 Problem 1

The upward velocity of a rocket is given as a function of time using cubic splines to find its matrix which is  $20 \times 20$  with  $a_1 = 0$  and  $b_1 = 0$ .

t (s)	v(t) (m/s)
0	0
10	227.04
15	362.78
20	517.35
22.5	602.97
30	901.67