Homework 7 (Problem numbers from textbook)

5.19 Suppose we desire a joint space trajectory $\dot{q}_i^d(t)$ for the i^{th} joint (assumed to be revolute) that begins at rest at position q_0 at time t_0 and reaches position q_1 in 2 seconds with a final velocity of 1 radian/sec. Compute a cubic polynomial satisfying these constraints. Sketch the trajectory as a function of time.