Name: . . . .

Term: . . . . **Subject:** . . . . **System Modeling & Control** . . . .

Teacher: A. Mhamdi

Do not write in this table.

Question:	1	Total
Points:	10	10
Score:		

1. (10 points) Design a 3D animation that allows to visualize a ball bouncing from a floor, taking into account the ball deformation as it hits the floor. The deformation can be achieved by updating the scale field of the ball. The ball's volume is kept constant all over the simulation.