7- A 20Kg box is sliding across the floor. If the box travels at distance of 30 m before coming to rest, What is the velocity of the box? (µk= 0.5)

8- A box is sliding down a friction-less curvy path. The box´s initial velocity is zero and its initial height is 20m. If the velocity of the box at a height of 9 m is 40 m/s, What is the mass of the box?

9- An 8Kg box is sliding down a friction-less curvy path with a velocity of 15 m/s. What is the maximum height that the box will be able to reach?

10- A box is sliding down a friction-less curvy path. The box´s initial velocity is zero and its initial height is 10m. When the box reaches a height of 8m, it encounters a spring. If the spring compresses 2m before bringing the box to rest and it has a spring constant of 5N/m, What is the mass of the box?

11- 7- A 15Kg box is sliding across a friction-less floor with a velocity of 25 m/s when it encounters a spring with a spring constant of 6 N/m. How far will the box slide before the spring brings it to rest?