Let’s see how your doing in this unit quiz

You know there is where most teachers would say don’t cheat and try your best, but this is something most people don’t read so I feel like I’m going to put some words of wisdom here. As Roy Keane once said ‘Fail to prepare, prepare to fail”. Good luck.

1. Use the following information to answer the questions below. Dean Deerhunter went out hunting. He got super lucky and bagged himself a 10 point buck. It has a mass of 105kg.
   1. If he hung it from a spring that stretched 3.4m, what is the spring constant?
   2. If he picked it up from the ground, a distance of 6m, with uniform acceleration, at a final velocity of 5 m/s, would the rope break if it has tensile strength of 1050N?
   3. How attracted to the deer is Dean Deerhunter to his deer if he’s 2m away?
   4. He then decides he doesn’t like where it is, so he decided to move it. If the co-efficient of friction between a deer and his floor is 0.34, how much force is needed to move it?
   5. Being that he’s from Alberta, he also takes it to his friends house to show him. Him and his deer are in an elevator. If Dean has a mass of 80kg, what would their apparent weight be if the elevator moved up at 14 m/s?
   6. To make everyone feel real good about themselves when we finish this thing, here’s a easy one. What is the net force if I, Mr Caddy, move with acceleration of 4.3 m/s2 and my mass is 78kg?