1. A box is being pulled along a horizontal table by a rope connected to a donkey's with k = 12.2 N/cm. The mass of the box is 14.7 kg. If friction is opposing the motion with a constant force of 5.6 N, and the box is accelerating at 4.1 m/s²

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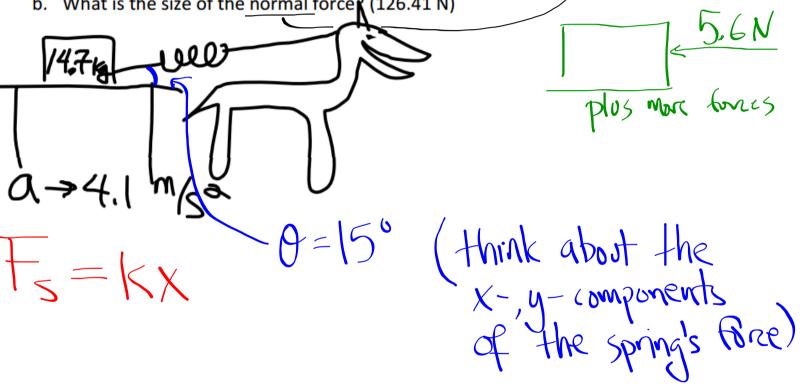
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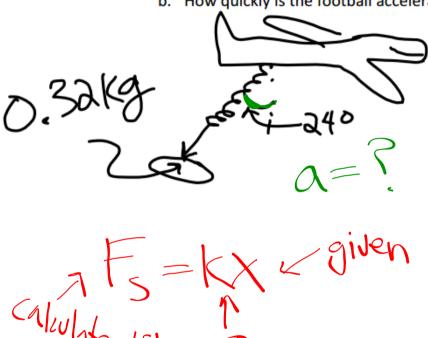
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What is the size of the normal force (126.41 N)

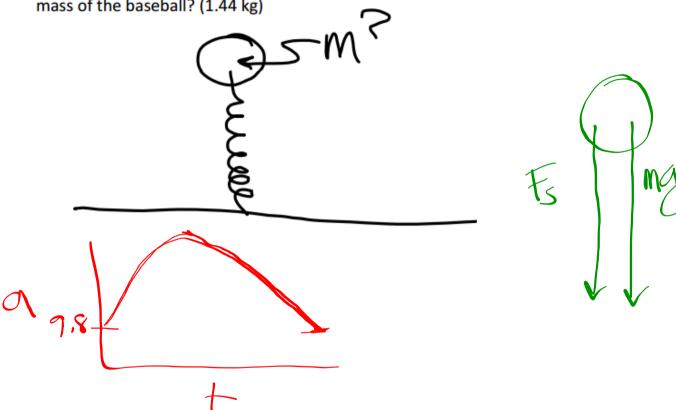


- 2. A football with a mass of 0.32 kg is hooked to an airplane by a spring at a constant angle (with the vertical) of 24°. The spring is stretched out 11 cm. The football is not moving in the vertical direction.
 - a. What is the spring constant of the spring (in N/cm)? (0.31 N/cm)
 - b. How quickly is the football accelerating horizontally? (4.36 m/s²)



F₅ cos 24

3. A baseball is thrown directly up into the air. It is attached to a spring that is hooked to the ground. The spring has a k of 0.41 N/cm. When the spring has stretched out 5.6 cm, the baseball has an instantaneous acceleration of 11.4 m/s² downward. What is the mass of the baseball? (1.44 kg)



How can you find the (constant) force of friction on a moving curt? · The For is same no matter how fist the cart 15 moving/ruelerating * You will be able to easily Measure: 1. Masses instruturous 2. Displacement/position

3. Velocity of the cort

(graphically/numerically) Before you leave the classroom, you should know the following:

What will you measure of how will you use those Measurements to calculate the actual # force of friction on your moving cart.

