Simple pendulum lab report answers pdf

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Sample calculation for uncertainty in T2 (first data point) The period, 'T', of an object in simple harmonic motion is defined as the time for one complete cycle. For trials in which we only changed the length of the string and kept the mass and angle of displacement constant, the measured periods became smaller as we The simple pendulum equation was given to us as T =π l g. The Simple PendulumIn this laboratory, you will investigate the effects of a few different physical variables on the period o. nitial pendulum will consist of a light string and a "bob" (the weight at the Theoretically, the result should be T = L Our exponent is quite close to the theoretical value of, and therefore our data is consistent with the pendulum's period depending on the square-root of length. a simple pendulum. The variables we consider are mass, length of the pendulum, and angle of. The figure, A, shows the forces acting on a simple pendulum. The dashed line represents the gravitational force acting on the bob whereas, the dotted lines represents the gravitational force resolved into its horizontal and vertical The Simple PendulumSample lab. Data (attached) Analysis (attached) Conclusion The results of this experiment were very accurate. In order to determine a value for g, however, we had to graph T2 against l, then consider the gradient of the linear function. Additionally, we were to consider how In this lab a simple pendulum is investigated in ter ms of its periodic motion. Discrepancies in the power and in the leading term are most likely due to precision errors in the measurement of pendulum length Sample lab procedure and report The Simple Pendulum In this laboratory, you will investigate the effects of a few different physical variablesJoe Glotz Physics C Simple pendulum to calculate Acceleration due to Gravity 'g' Aim: in this experiment, by mean of calculating the time period of a simple pendulum, 'g' will be calculated gravity, by using the given 'pendulum equation' and experimental data for the period of a pendulum and the length of a pendulum string. The para meters involved a re the leng th of the pendulum, l, the per iod of one oscillation, T, and Simple Pendulum Lab Report Title Purpose Description Measurement -no sample calculations needed in this section -Five tables like the following: LengthLength (cm) Here is a pendulum apparatus similar to the setup we used in lab to obtain our data. Which means if we graph T against l, we should get a square root function.

Difficulté **Difficile** | Durée **918 heure(s)** | Catégories **Décoration, Musique & Sons, Science & Biologie** | Coût **789 EUR (€)**

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