# Moment of inertia of a flywheel 

Science, Physics

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The gradient the graph represents the inertia, I. The y-intercept with the $y$ axis is the friction torque. The general equation of the graph was $y=2.243 x$ +0.0157 The gradient was found to be 2.243 , hence the inertia of the flywheel was found to be 2. 243The y-intercept was 0.0157 which is the frictional torque. Possible sources of errors were: • Error due to personal carelessness. The errors include inaccuracy in taking the time readings and failure to follow the correct procedure. • Error due to failure to calibrate the zero of the measuring instruments. - Error due to parallax when taking the readings of the weight. • Errors could arise from premature truncation and rounding off numbers.

