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| |  |  |  |  | | --- | --- | --- | --- | | **PH 201 Pre-Lab 12** | **Moment of Inertia** | **Name** |  | |
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| In this week’s lab we are going to examine moments of inertia. |
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| 1. Consider the relationship . Plot on the y axis and on the x axis. What is your slope? |
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| 2. What should the y-intercept be? |
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| 3. A mass m, falls from a height h to the floor. How long does it take to fall if it starts from rest? |
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| 4. If a wheel of radius R has linear acceleration of a, what is the angular acceleration |
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| 5. Again if you consider the relationship , but this time you plot on the y axis and on the x axis, what would be the slope? |
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| 6. What would the y-intercept be? |
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| 7. How do you get moment of inertia (I) from the y-intercept? |
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