Presentations04

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| State and prove an identity about the Fibonacci numbers.  |   |
| Explain the Ptolemaic system of the solar system. Explain retrograde motion and how Ptolemy addressed it. |   |
| Use Newton’s laws to prove Galileo’s claim that objects fall at the same rate from the same height regardless of being of different weights. |   |
| [If you’ve had differential equations and want a challenge.] Use the laws of Newton to prove one or more of Kepler’s laws. |  |
| Calculate the Parallax to the nearest star. |  |
| What is the “problem of points”? Give an example and solve it. |  |
| Explain “Napier’s bones,” do an example. |  |
| Barrow’s method for finding a line tangent to a curve. Check your textbook or look at:<https://math.stackexchange.com/questions/2240189/barrows-method-for-slope-of-tangent-line>  |  |
| Fermat’s method for finding a line tangent to a curve. Check your textbook or look at: <https://www.youtube.com/watch?v=18smDQ7-tTU>  |   |
| Describe Fermat’s method of infinite descent. Use it to prove a theorem. |   |
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