Presentations04

|  |  |
| --- | --- |
| 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. |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |