Determine all transformations that occur in order to graph the following functions (Amp, Period, …) DO NOT GRAPH!!!

Graph the following functions below.

Derive ONE of the THREE Pythagorean Identities below using the Pythagorean Theorem.

1. Derive ONE of the THREE Pythagorean Identities below using the Pythagorean Theorem.
2. Write a function using the SINREG feature of the calculator that models this data.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Jan | Feb | Mar | Apr | May | Jun | July | Aug | Sep | Oct | Nov | Dec |
| 73 | 73 | 74 | 76 | 78 | 79 | 81 | 81 | 81 | 80 | 77 | 74 |

Prove 13 of the Trig Identities from the notes and homework by showing that the left hand side of the equation is equal to the **right hand side**. You have these, so study them.