**IB Physics**

**FA11.0 - Simple Harmonic Motion Graphs**

Name

What your parents call you when they are cheesed off



Given this graph of position vs. time for a SHO, determine:

1. Period = Amplitude =

2. Write an equation for its position:

3. Write an equation for its velocity: (EC - write one for its acceleration)

4. At 4.2 seconds what is its position, velocity and acceleration?

5. Fill in the table qualitatively: (+ or - or 0)

|  |  |  |  |
| --- | --- | --- | --- |
| Time | x | v | a |
| 3.0 s |  |  |  |
| 1.5 s |  |  |  |
| 2.4 s |  |  |  |
| 3.8 s |  |  |  |
| 4.5 s |  |  |  |
| 4.0 s |  |  |  |