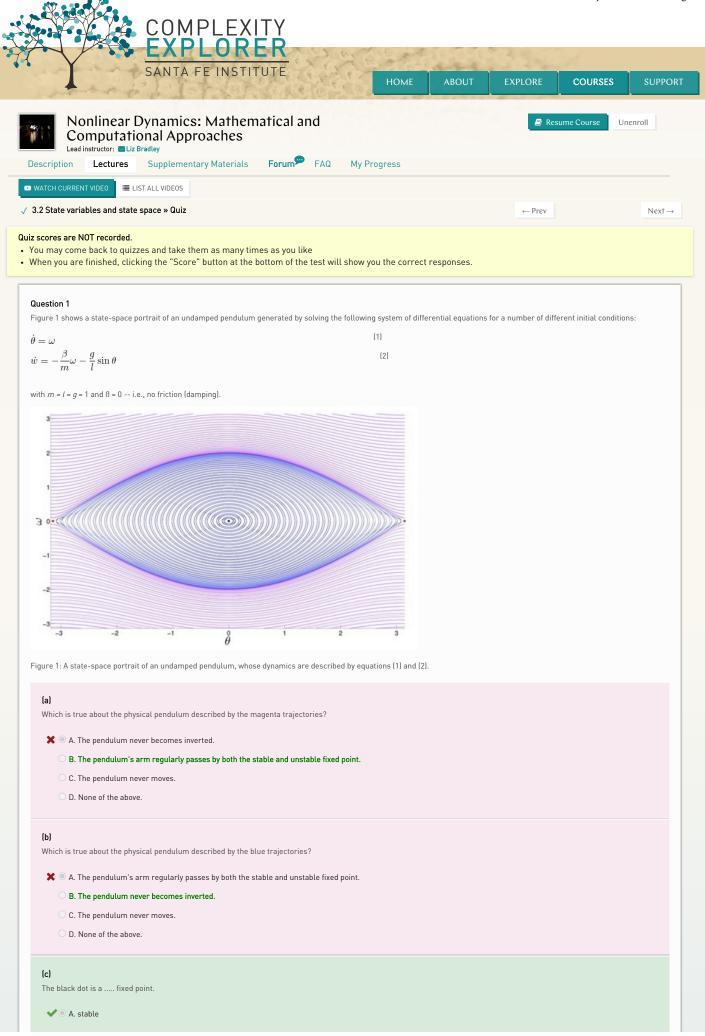
5/31/2020

Raiesh Shashi Kumar Logout



20	Complexity Explorer
	○ B. unstable
	(d) The red dots are fixed points.
	○ A. stable
	✓ © B. unstable
	(e) If damping was introduced, e.g., $\beta$ = 0.5, how would the trajectories in Figure 1 change?
	✓ ○ A. The trajectories would spiral toward the stable fixed points.
	B. The trajectories would spiral toward the unstable fixed points.
	<ul><li>C. This parameter change would not be seen in this representation.</li><li>D. All trajectories would diverge.</li></ul>
	○ E. None of the above.
In	<b>Lestion 2</b> Figure 2, the solutions of equations (1) and (2) were generated starting from the exact same initial conditions as in Figure 1 but <i>exactly</i> one parameter in the equations was modified. hat parameter was changed?
	3
	2
***	

Figure 2: A state-space portrait of a pendulum, whose dynamics are described by equations (1) and (2), but with a slightly different value of one parameter.

https://www.complexityexplorer.org/courses/100-nonlinear-dynamics-mathematical-and-computational-approaches/segments/9066

A. The length, L ✓ B. The coefficient of friction, ß C. The pendulum mass, m D. None of the above

You got 4 out of 6 questions correct Reset