**Stability**

**Quiz:** Stability.
In the autonomous equation $\dot{y} = f(y)$, where $f(y)$ has the graph shown, describe the rightmost critical point.

![Graph of y vs. y']

**Choices:**
a) stable  
b) unstable  
c) semistable  
c) can’t tell, could be any of them

**Answer:** Unstable. This is evident from the phase line.

![Phase line diagram]

The phase line shows that the critical point at $y = 1$ is unstable.