Damping and Amplitude

Quiz: Consider the equation

$$\ddot{x} + b\dot{x} + 2x = \cos(t).$$

If the damping constant b starts at 1 and is increased, what happens to the amplitude of the solution?

Think about your answer and then look at the choices.

MIT OpenCourseWare http://ocw.mit.edu

18.03SC Differential Equations Fall 2011

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.