

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?

Choices:

- a) It increases.
- b) It decreases.
- c) It stays the same.

Pick what you think is the correct choice and then look at the answer.

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18.03SC Differential Equations
Fall 2011

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