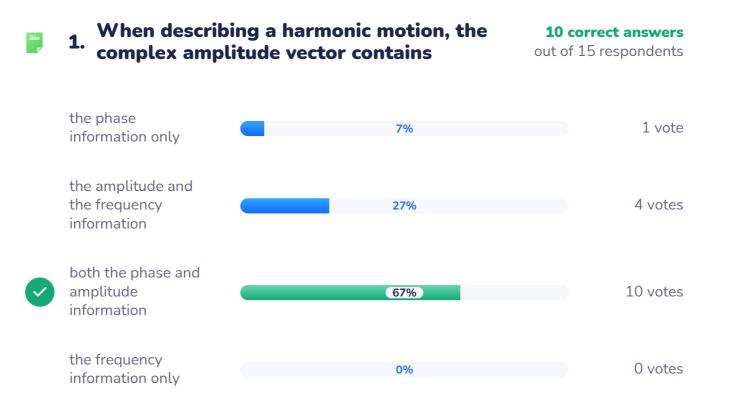
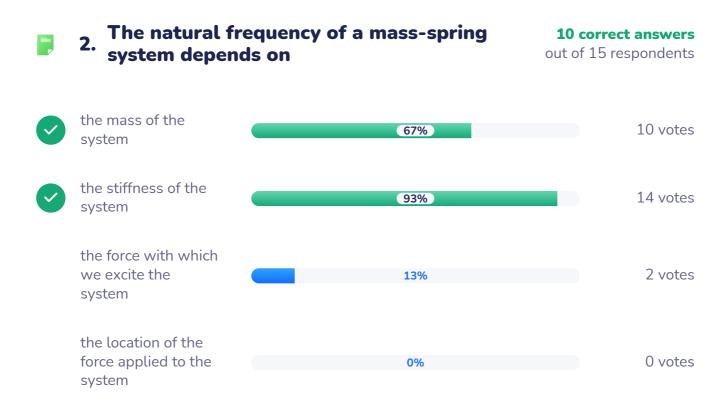
DOS:1DOF

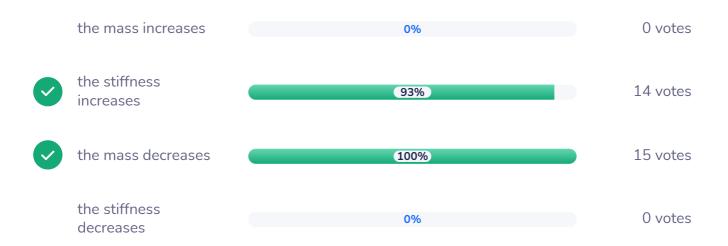
Number of participants: 20

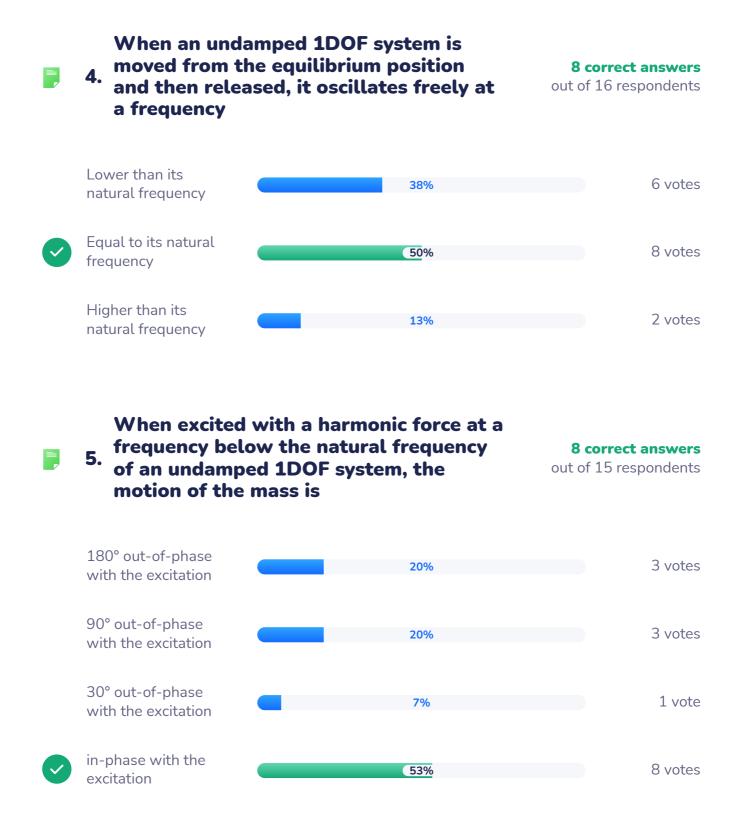




3. The natural frequency of a mass-spring system increases when ou

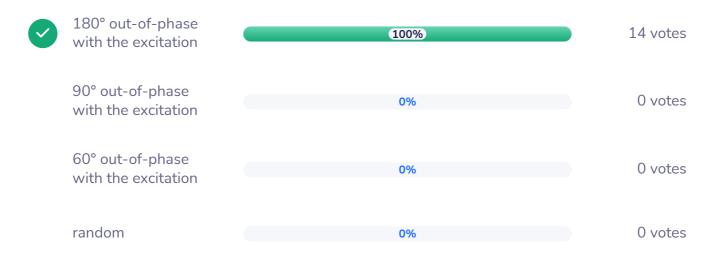
14 correct answers out of 15 respondents





When excited with a harmonic force at a frequency above the natural frequency of an undamped 1DOF system, the motion of the mass is

14 correct answers out of 14 respondents



For an undamped 1DOF system, when excited with a harmonic force at a

7. frequency corresponding to its natural frequency, the amplitude of the motion is

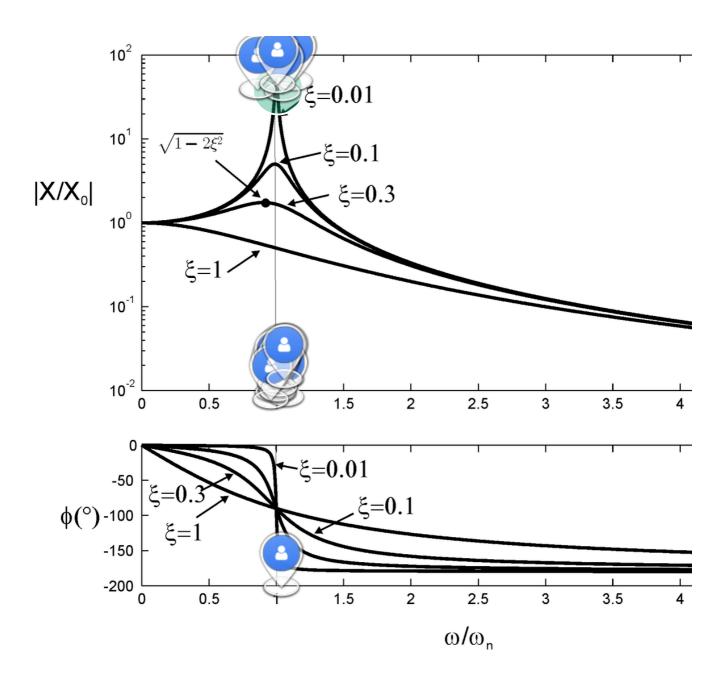
11 correct answers out of 13 respondents

in phase with the excitation force	15%	2 votes
180° out-of-phase with the excitation force	0%	0 votes
infinite	85%	11 votes



11. Where is the resonant frequency of the1DOF system on this diagram ?

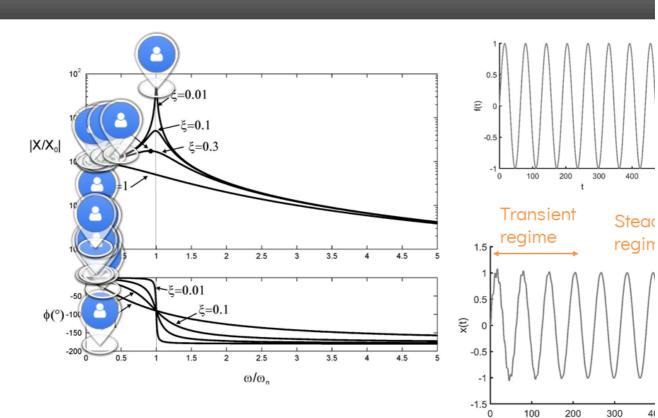
16 respondents



To which area of the bode plot does **12.** the time domain response presented in the graph correspond to ?

15 respondents

Bode plot vs time domain response



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t

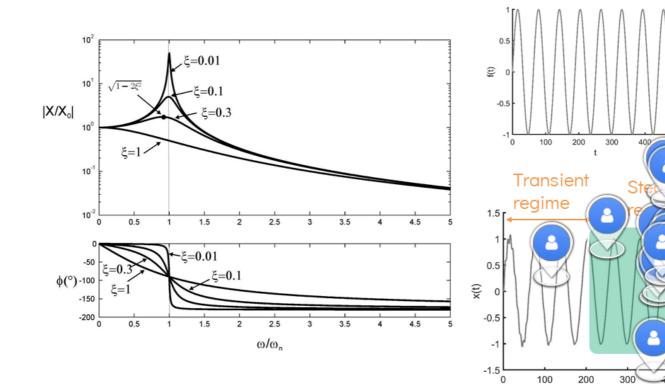
0

Which part of the time domain 13. response actually corresponds to the hypothesis in the Bode plot ?

14 respondents

t

Bode plot vs time domain response



For a sine sweep excitation, which part
of the time domain response
corresponds to the resonance of the
1DOF system ?

15 respondents

Sine sweep excitation

