











H P U		週間	H P U		<u>III</u>
	Poll		DATE:	Poll	
sprir and	mple harmonic oscillator of a mass m on a ng of stiffness k oscillates with an amplitude A frequency ω . If you double the amplitude A, the rgy of the system			A simple harmonic oscillator of a mass m on a spring of stiffness k oscillates with an amplitude A and frequency ω . If you double the frequency ω , the energy of the system	
1. li	ncreases by factor of 2			1. Increases by factor of 2	
2. E	Decreases by factor of 1/2			2. Decreases by factor of 1/2	
3. li	ncreases by factor of 4			3. Increases by factor of 4	
4. E	Decreases by factor of 1/4			4. Decreases by factor of 1/4	
5. li	ncreases by factor sqrt(2)			5. Increases by factor sqrt(2)	
6. E	Decreases by factor 1/sqrt(2)			6. Decreases by factor 1/sqrt(2)	
7. 5	Stays the same.			7. Stays the same.	







