1. A transverse wave traveling on a string is described by the expression $y(x,t) = 1 \text{ cm} \sin (1.3 \text{ x /m} - 10 \text{ t / s})$, where m=meters, cm=centimeters, and s=seconds. What is the frequency, f, of this wave?

А	20 Hz	F	1.6 Hz
В	1.3 Hz	G	1.59 Hz
С	10 Hz	Н	20 Hz
D	628 Hz	Ι	0.314 Hz
Е	12 Hz	J	314 Hz

2. For the wave in problem 1, what is the period, T, of the wave?

Α	0.1 s	F	0.159 s
В	10 s	G	7.69 s
С	0.0318 s	Η	76.9 s
D	0.769 s	Ι	0.628 s
Е	31.4 s	J	1 s

3. For the wave in problem 1, what is the wavelength, λ , of the wave?

Α	1.3 m	F	3.2 mm
В	2.42 m	G	0.13 m
С	13 m	Η	13 mm
D	0.769 m	Ι	4.83 m
Е	7.69 m	J	8.17 m

4. For the wave in problem 1, what is the direction the wave is traveling?

А	- x direction	F	- z direction
В	+x direction	G	it's not moving
С	up	Н	cannot be determined
D	+ y direction	Ι	- y direction
Е	+ z direction	J	down

5. For the wave in problem 1, what is the transverse acceleration of the wave at time t=0 and position x=1m?

Α	0.26 m/s ²	F	0.1 m/s ²
В	- 10 m/s ²	G	9.87 m/s ²
С	100 m/s ²	Η	98.7 m/s ²
D	- 3.14 m/s ²	Ι	0.0987m/s ²
Е	3.14 m/s ²	J	- 0.963 m/s ²