Waves HW 1 (8764712)

Current Score: 0/7 **Due:** Wed Mar 2 2016 09:00 AM PST

Question	1	2	3	4	Total
Points	0/1	0/1	0/2	0/3	0/7

1. 0/1 points OSColPhys1 16.9.052. [2153094]

What is the wavelength of the waves you create in a swimming pool if you splash your hand at a rate of 2.00 Hz and the waves propagate at 0.600 m/s?

[ ] ✖ m

2. 0/1 points OSColPhys1 16.9.053. [2153527]

What is the wavelength of an earthquake that shakes you with a frequency of 14.0 Hz and gets to another city 81.0 km away in 12.0 s?

[ ] ✖ m

3. 0/2 points OSColPhys1 16.P.048.Tutorial.WA. [2611947]

A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests of the wave pass a buoy along the direction of travel every 18.1 s, determine the following.

(a) frequency of the wave

[ ] ✖ Hz

(b) speed at which the wave is traveling through the canal

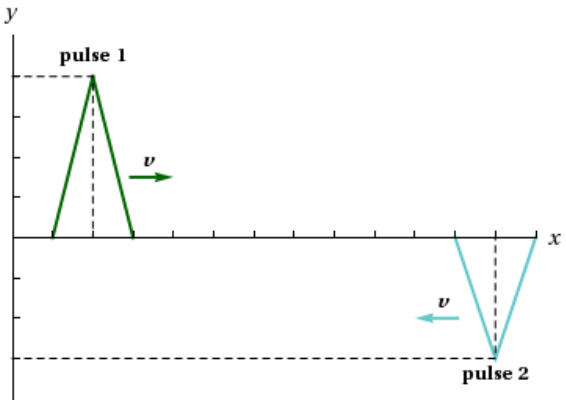
[ ] ✖ m/s

Supporting Materials

Physical Constants

4. 0/3 points OSColPhys1 16.P.061.Tutorial.WA. [3178970]

At $t = 0$, the instantaneous position of two pulses moving along a taut string with a speed $v = 2.27$ cm/s are as shown in the diagram below. Each unit on the horizontal axis is 2.0 cm and each unit on the vertical axis is 2.0 cm.



(a) At what location will the resultant of the two pulses have minimum amplitude?

[ ] ✘ cm

(b) At what time will the resultant of the two pulses have minimum amplitude?

[ ] ✘ s

(c) What is the value of this minimum amplitude?

[ ] ✘ cm

Assignment Details

Name (AID): **Waves HW 1 (8764712)**
Submissions Allowed: **10**
Category: **Homework**
Code:
Locked: **Yes**
Author: **Steinkamp, Alex (** asteinkamp@osd.wednet.edu **)**
Last Saved: **Feb 29, 2016 11:30 AM PST**
Group: **AP Phys 1**
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