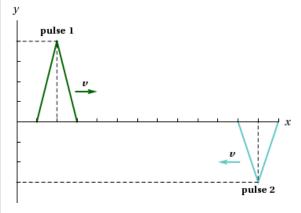
## Waves HW 1 (8764712)

| 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?  O/1 points  OSColPhys1 16.9.053. [21535]  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?  The points  OSColPhys1 16.9.048.Tutorial.WA. [26119]  A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests 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  Supporting Materials   |          |                        |   |   |
|--|----------|------------------------|---|---|
| Points  O/1 points  OSColPhys1 16.9.052. [21530]  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?  O/1 points  OSColPhys1 16.9.053. [21535]  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?  Mawy in 12.0 s?  O/2 points  OSColPhys1 16.9.048.Tutorial.WA. [26119]  A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests 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  Mys  Supporting Materials | o .:     | re: 0/7 <b>Due</b> : W | ed Mar 2 2016 09:00 AM PST                |   |
| O/1 points  OSColPhys1 16.9.052. [21530]  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?  O/1 points  OSColPhys1 16.9.053. [21535]  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?  O/2 points  OSColPhys1 16.9.048.Tutorial.WA. [26119]  A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests 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                          | Question |                        | Total                                     |   |
| 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?  O/1 points  OSColPhys1 16.9.053. [21535]  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?  May in 12.0 s?  O/2 points  OSColPhys1 16.P.048.Tutorial.WA. [26119]  A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests 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  Mr/s  Supporting Materials   | Points   | 0/1 0/1 0/2 0/3        | 0/7                                       |   |
| 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?   |          |                        |   |   |
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| waves propagate at 0.600 m/s?  | 0/1 poin | nts                    |   | OSColPhys1 16.9.052. [2153094]                            |
| 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?  O/2 points  OSCOIPhys1 16.P.048.Tutorial.WA. [26119]  A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests 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  |          | s propagate at 0.60    |   | pool if you splash your hand at a rate of 2.00 Hz and the |
| away in 12.0 s?  O/2 points  OSColPhys1 16.P.048.Tutorial.WA. [26119]  A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests 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   | 0/1 poin | <br>nts                |   | OSColPhys1 16.9.053. [2153527]                            |
| away in 12.0 s?  O/2 points  OSColPhys1 16.P.048.Tutorial.WA. [26119]  A transverse wave is traveling through a canal. If the distance between two successive crests is 2.07 m and four crests 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   | 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     |
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| (a) frequency of the wave  Hz  (b) speed at which the wave is traveling through the canal  m/s  Supporting Materials   | Δ tran   |                        |   |   |
| (b) speed at which the wave is traveling through the canal  m/s  Supporting Materials  | Atlan    | ave pass a buoy ald    | ong the direction of travel every 18.1 s, | determine the following.                                  |
| (b) speed at which the wave is traveling through the canal   |          | (a) frequency of       | the wave                                  |   |
| Supporting Materials   |          |                        |   |   |
| Supporting Materials   |          |                        |   |   |
| Supporting Materials   |          | ₩ Hz                   | ch the wave is traveling through the car  | nal   |
|  |          | (b) speed at which     |   | nal   |
|  | the wa   | (b) speed at which     |   | nal   |
| Physical Constants   | the wa   | (b) speed at which     |   | nal   |
|  | the wa   | (b) speed at which     |   | nal   |

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?

**≭** cn

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

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