



←----- 6 meters -----→

1. What is the wavelength of the wave above?
 2. What is the amplitude of the wave ?
 3. Assume the frequency of the wave is 2 Hz, calculate the velocity of the wave
 4. What is the period of the wave?
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5. Given 2 resistors $R_1=100$ ohms and $R_2 = 300$ ohms connected in series with a battery supplying 40 volts, draw a proper schematic diagram and then calculate the following:
 - 6.Total Resistance of the circuit
 7. Total Current through the circuit
 8. Voltage across the 100 ohm resistor
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9. Describe completely and in detail the method you would use to charge an object by induction.
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10. Assuming you have an object outside the focal length of a convex lens, draw a ray diagram and locate and label the image. Indicate if it is real or virtual.
 11. A 100 ohm resistor and a 300 ohm resistor are connected in parallel to a 20 volt battery. Calculate the total resistance of the circuit and the current through each resistor.

