

| 4. | Wave 4 |
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| | |
| a) | How many wave cycles are completed in this diagram? |
| b) | Wavelength cm c) Amplitude cm d) frequency Hz |
| e) | speed cm/s f) period s |
| 5. | Wave 5 |
| | |
| a) | How many wave cycles are completed in this diagram? |
| b) | Wavelength cm c) Amplitude cm d) frequency Hz |
| e) | speed cm/s f) period s |
| 6. | What is the wavelength of a sound wave with a frequency of 50 Hz? (Speed of sound is 342 m/s) |
| 7. | A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel? |
| 8. | Determine the frequency of a microwave 6.0 cm in length. (A microwave is an electromagnetic wave. It travels through space at a speed of 3.0×10^8 m/s) |
| 9. | What is the period of the microwave in problem 8? |