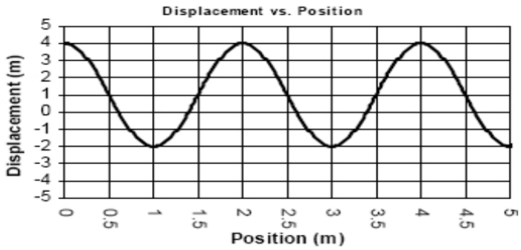
NAME _____ Waves Worksheet
PT PHYSICS

1. You hear a plane 4 seconds after you see it. The speed of sound is 343 m/s. Find the distance to the plane.
Givens: t = _____ sec d = _____ m v_s = _____ m/s
Equation:

Use the graph to answer these questions:



2. λ = _____
3. 1 cycle is from 1 m to _____;
4. 1/2 cycle is from 0 m to _____.
5. Amplitude (A) = _____
6. Total number of cycles: _____;

7. Draw a wave on the graph above with $\frac{1}{2}$ the wavelength and $\frac{1}{2}$ the amplitude

8. The wave above is a sound wave with a speed of 343 m/s; find frequency:
Givens: λ = _____ m f = _____ Hz v = _____ m/s
Equation:

9. A wave's velocity is 90 m/sec with a frequency of 6 Hz. What is it's wavelength?
Givens: λ = _____ m f = _____ Hz v = _____ m/s
Equation:

10. A wave has a wavelength of 20 m and a velocity of 50 m/s. Find its frequency.
Givens: λ = _____ m f = _____ Hz v_s = _____ m/s
Equation: