Name: $\qquad$ IPC Physics Final Review 2
Period: $\qquad$


Name: $\qquad$
$\qquad$

A piece of wood is burned and releases 55 joules of chemical energy. 30 J is transformed into thermal energy, 15 J is transformed into mechanical energy. By the Law of Conservation of Energy, how much energy becomes radiant energy?

You increase the current in an electromagnet. The strength of the electromagnet increases or decreases?


Series or Parallel?
$\mathrm{V}_{\mathrm{T}}=$ $\qquad$
$\mathrm{R}_{\mathrm{T}}=$ $\qquad$
$\mathrm{I}_{\mathrm{T}}=$ $\qquad$
$\mathrm{P}=$ $\qquad$


Series or Parallel?


How much Naffet does a 12 lyr box have when given $4 \mathrm{tr} / \mathrm{i}$.


Mark 1 cycle of the wave.
Starting at 0.75 m , where does the 2 nd cycle end:
Number of complete cycles:
Wavelength:
Amplitude:

Is the person doing work?
When pushing a 1000 N car 20 meters?
When lifting a rock off the ground?
When holding a book in their hands?
A person is hammering nails a long way from you. It takes
2 seconds for the sound to get to you. How far away are they?

Make these twice as loud: 60 dB to $\qquad$ ; 25 dB to $\qquad$ .

Make these half as loud: 100 dB to $\qquad$ ; 35 dB to $\qquad$ .

In 2 seconds, a 3 N force pushes for 6 m to cause a 25 kg object to end up going $10 \mathrm{~m} / \mathrm{s}$.

1) Find the momentum of the object
2) Calculate the object's final kinetic energy.
3) A how much work is done to accelerate the object?
4) How much power was used on the object?


Where will the income ray go? What is the dot called?

Why does the light bend?
Concave or convex lens?

Find its period: $\qquad$

What harmonic is this? $\qquad$

Could a human hear this frequency? $\qquad$
Mark the nodes and anti-nodes.
Mark one wavelength.
How many wavelengths total is it? $\qquad$
Find the fundamental frequency:

5th harmonic frequency:


200 Hz

