Review for Final Spring 2006

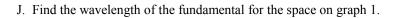
1. 2. 3.	Convergent or Divergent: Concave mirror; Convex lens; Convex mirror; Concave lens? Do convergent devices have a real or virtual focal point? Are the following + or -?
	A. The distance to the object? I. The right side of a mirror? B. The focal length of a concave mirror? J. Image distance from a convex lens (usually)? C. Image distance from a convex mirror? K. q if the image is inverted. D. q if the image appears to the left of a mirror. L. h' if the image is inverted. C. The focal length of a convex mirror? M. The focal length of a convex lens? C. Image distance from a concave lens? N. The left side of a mirror? G. The left side of a lens? O. Image distance from a concave mirror (usually) H. The focal length of a concave lens? P. The right side of a lens?
4. 5.	What do the letters stand for on the diagram? (<i>One is repeated</i>) Show what will happen for the lens at the right as it enters AND EXITS the lens (the lens is made from glass).
6.	Lenses change light by; Mirrors change light by len
7.	For a real image: (+ or –)
	A) h is C) p is E) M is B) h' is D) q is 60°
8.	The angle of reflection for the mirror is: mirror lens
9.	Label p, q, h, and h' on this diagram.
10.	s it a real or virtual image? How do you know?
12. 13. 14. 15. 16. 17. 18.	The voltage from N to P is: The voltage from A to G is: The voltage at A is: The voltage at K is: The voltage from D to K: The voltage from G to I: How many branches are there? t will help if you mark the following on the diagram as you go. Find the current through each branch. The voltage from A to G is: The voltage from D to K: The voltage from G to I: How many branches are there? t will help if you mark the following the total resistance of branch 4. The voltage from B to C to I: How many branches are there? t will help if you mark the following the total resistance of branch 4. The voltage from B to K: The voltage from G to I: How many branches are there? t will help if you mark the following the total resistance of branch 4. The voltage from B to K: The voltage from B to K: How many branches are there? t will help if you mark the following the total resistance of branch 4. The voltage from B to K: The voltage from B to K: How many branches are there? t will help if you mark the following the total resistance of branch 4. The voltage from B to K: The voltage from B to K: How many branches are there? t will help if you mark the following the total resistance of branch 4. The voltage from B to K: The vo
20.	Sind the current through K.
21.	Non- Image: Market Strength L Non- Market Strength L
22.	ind the current through N.
23.	Find the current through A. 28. Which resistor is brighter the 4 Ω , 2 Ω , or 8 Ω ?
24.	The total current of the circuit is: 29. Why?
25.	The total voltage is: 30 . Which is brighter the 3 Ω or 6 Ω resistor? 31 . Why?
26.	The total resistance is?

32. Find the voltage at H.

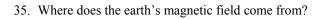
27. The total power is?

Final Review

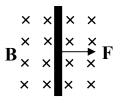
- 33. Use the standing wave at the right to answer the following.A. Find the standing wave's wavelength.
 - B. If this was a sound wave, find its frequency.
 - C. Can we hear it's frequency?
 - D. Amplitude = _____ E. Period = _____
 - F. Where will it come to rest?
 - I. Find the fundamental frequency for this space.

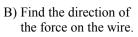


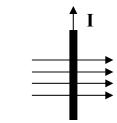
34. Find the force of gravity on the two objects at the right.



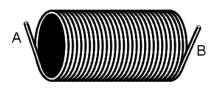
- 36. How does the earth's magnetic field protect us?
- 37. How does a motor work?
 - A) Find the direction of the current in the wire.





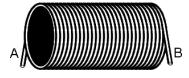


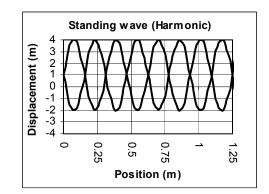
D) If N is to the right, which side does the electricity come out?

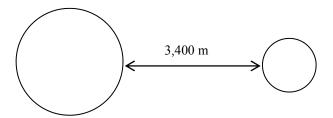


E) If electricity is attached to letter B, will left or right be south?

B







Mass: 7,500 kg Diameter: 2,200 m

Mass: 4,500 kg Diameter: 1,000 m

C) Draw the compasses around the current carrying wire.

