

This assignment will be worth a total of 75 homework points (5% of your final grade). Work in assigned pairs. Due Friday, 18 April.

Section 5521

Brown	Piavis
Curran	Smith
Diaz	Tsusaki
Disher	Kelly
Fernandez	Dunn
Green	Shaari
Knopik	Vela
Lark	Sheffield
Mann	Monbleau
Messiha	Sanchez
Scott	Steptoe

Section 6541

Bell	Valdez	
Bowers	Bresnahan	
Campbell	Cardwell	
Cox	De Soto	
Fitzgerald	Reno	
Johnson	Miller	
Kincaid	Mays	
Komadina	Yee	
Sultan	Polley	Ward

1. Serway, Problem 35.28 (5 points)
2. Serway, Problem 35.52 (5 points)
3. Serway, Problem 35.58 (5 points)
4. Serway, Problem 35.64 (5 points)

5. Serway, Problem 36.2 (2 points)
6. Serway, Problem 36.4 (2 points)
7. Serway, Problem 36.8 (2 points)
8. Serway, Problem 36.14 (2 points)
9. Serway, Problem 36.18 (3 points)

10. Serway, Problem 36.20 (3 points)
11. Serway, Problem 36.24 (3 points)
12. Serway, Problem 36.26 (3 points)

13. Serway, Problem 23.36 (2 points)

14. Serway, Problem 24.18 (3 points)
15. Serway, Problem 25.38 (3 points)
16. Serway, Problem 26.14 (3 points)
17. Serway, Problem 27.28 (3 points)
18. Serway, Problem 28.20 (3 points)
19. Serway, Problem 29.10 (3 points)
20. Serway, Problem 30.6 (3 points)
21. Serway, Problem 31.28 (2 points)
22. Serway, Problem 32.20 (3 points)
23. Serway, Problem 34.40 (2 points)

$$\oint \mathbf{E} \cdot d\mathbf{A} = \frac{q}{\epsilon_0}$$
$$\oint \mathbf{B} \cdot d\mathbf{A} = 0$$
$$\oint \mathbf{E} \cdot d\mathbf{s} = -\frac{d\Phi_E}{dt}$$
$$\oint \mathbf{B} \cdot d\mathbf{s} = \mu_0 I + \epsilon_0 \mu_0 \frac{d\Phi_E}{dt}$$

24. Memorize Maxwell's equations. Be prepared to:

- (a) name each of Maxwell's equations (e.g. "Faraday's Law");
- (b) state each of Maxwell's equations in words (describe what each of Maxwell's equations relates);
- (c) write each of Maxwell's equations on the board;

Each partnership's efforts will be assessed in class when this assignment is turned in. (5 points)