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| /67 |
| **Physics 30 - Lesson 18H****Resistors and Capacitors****Part A** |
| 1)/ 5 | checkmark | checkmarkcheckmarkcheckmarkcheckmark |
| 2)/ 3 |  | checkmarkcheckmarkcheckmark |
| 3)/ 3 |  | checkmarkcheckmarkcheckmark |
| 4)/ 3 |  | checkmarkcheckmarkcheckmark |
| 5)/ 6 |  | checkmarkcheckmarkcheckmarkcheckmarkcheckmarkcheckmark |
| 6)/ 5 |  | checkmarkcheckmarkcheckmarkcheckmarkcheckmark |
| 7)/ 3 |  | checkmarkcheckmark | checkmark |
| If the separation between the plates doubles, then the energy stored should also double (Keeping all else the same!) |
| **Part B** |
| 1)/ 4 | checkmarkcheckmarkcheckmarkcheckmark |
| 2)/ 3 |  | checkmarkcheckmarkcheckmark |
| 3)/ 6 | A) | checkmarkcheckmarkcheckmark |
|  | B) | checkmarkcheckmarkcheckmark |
| 4)/ 1 | checkmarkBy adding a capacitor in parallel to the circuit, the new capacitance will be  |
| 5)/ 3 | To accomplish this, you would have to add a capacitor in series such that:checkmarkcheckmarkcheckmark |
| C2C1C3V6)/ 7 |  | checkmarkcheckmarkcheckmarkcheckmark |
|  | checkmark | checkmark | checkmark |

|  |  |
| --- | --- |
| 7)/ 4 | MaximumHook all the capacitors in parallelcheckmarkcheckmarkMinimumHook all the capacitors in seriescheckmarkcheckmark |
| 8)/ 7 | C2C1C350V |  |
| A)  | checkmarkcheckmark |
| B) | checkmarkcheckmark | checkmarkcheckmarkcheckmark |
| 9)/ 4 | checkmarkcheckmarkcheckmarkcheckmark |