

## Outline

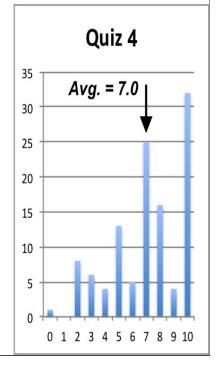
- Go over Quiz 4
- Recap: Field from one large uniform plate
- Field of two large parallel plates
- **■** Capacitance
- The field and potential in a capacitor

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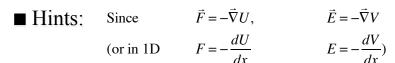


	1		2	3	4
Α	2%	Α	1%	67%	9%
В	5%	В	1%	21%	76%
С	18%	С	7%	1%	3%
D	<b>75%</b>	D	3%	11%	11%
		ВС	58%		
		AC	6%		
		AD	24%		

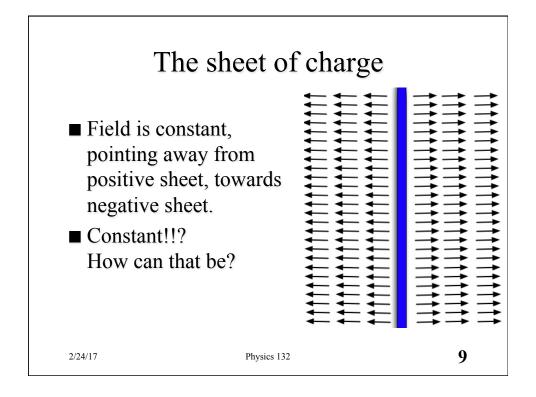
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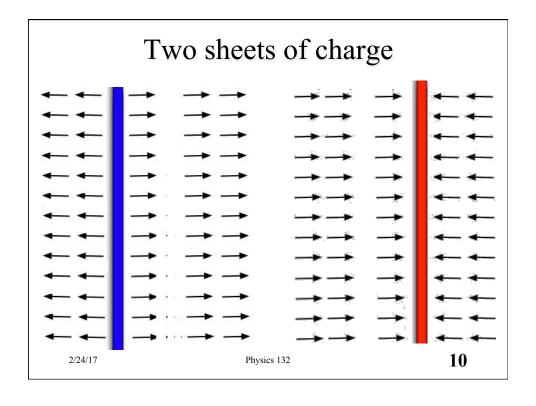


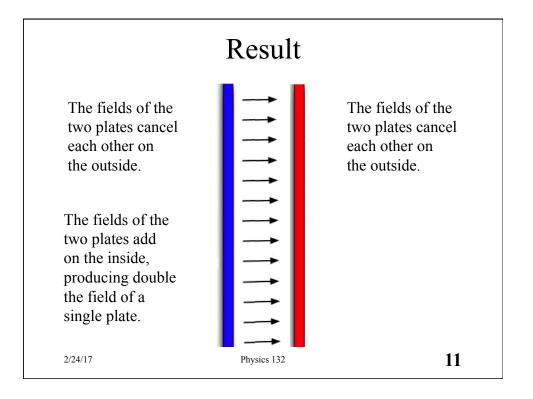
If we choose the electric potential to be 0 at the surface of a large uniform sheet of charge, what does the potential look like as a function of the distance from the sheet?



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## Some basic electrical ideas

- *Conductor* a material that permits some of its charges to move freely within it.
- *Insulator* a material that permits some of its charges to move a little, but not freely.
- *Battery* a device that creates and maintains a constant potential difference across its terminals.  $\Delta V = V_0 \text{ volts}$

2/24/17 High end Low end 12