Read p. 626 - 635

- Write self-notes of important points
- Do examples on own paper

What model are we building?

16.4 – 16.7

- Main ideas
- Examples
  - p. 637
  - p. 642
  - p. 649 (top)
  - p. 650

$$\vec{E} = -\vec{\nabla} V$$

↳ nabla

$$\nabla = \left\langle \frac{\partial}{\partial x}, \frac{\partial}{\partial y}, \frac{\partial}{\partial z} \right\rangle$$

partial differentiation

$$f(x,y,z) = x^2 y^3 z^4$$

$$\frac{\partial f}{\partial x} = 2x y^3 z^4$$

$$\frac{\partial f}{\partial y} = 3x^2 y^2 z^4$$

$$\frac{\partial f}{\partial z} = 4x^2 y^3 z^3$$