PHYS 212 Field from Potential







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P35. The electric potential at points in an *xy* plane is given by:
 *V* = (2.0 V/m2)*x*2 - (3.0 V/m2)*y*2.
In unit-vector notation, what is the electric field at the point (3.0 m, 2.0 m)?

P37. What is the magnitude of the electric field at the point (3**i** -2**j** +4**k**)m if the electric potential is given by *V* = 2.00*xyz*2, where *V* is in volts and *x*, *y*, and *z* are in meters?