



Benha University
Faculty of Engineering
Shoubra

Antennas & Wave Propagation
ECE 411

Electrical Eng. Dept.
4th year communication
2015-2016

Sheet (1)... 1st Week

1. **Define** antenna and State different types of antenna.
2. **Draw** some familiar types of antenna.
3. **Which** antenna may be used for
 - i. UHF/VHF TV.
 - ii. WLAN protocols.
 - iii. Satellite communications.
4. **Describe** radiation mechanism for single wire antenna.
5. **Describe** radiation mechanism for two wires antenna.
6. **Derive** the wave equation described by magnetic vector potential. (*Report*)

Good Luck

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