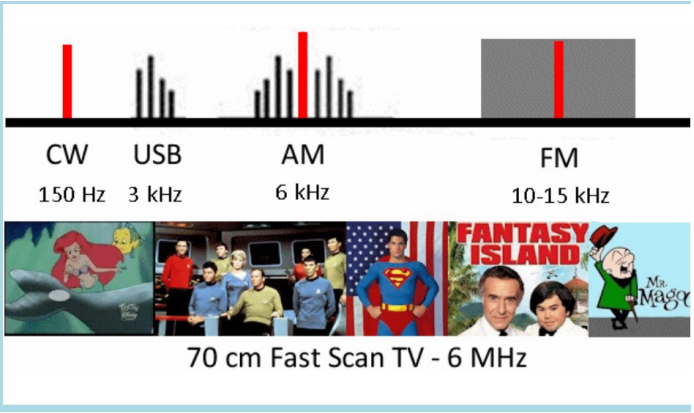
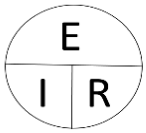
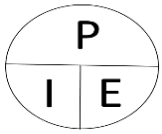
Bandwidth for various modes of operation



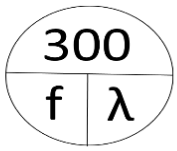
Formulas



E = Electromotive Force (Volts)
I = Current (Amps) Intensity
R = Resistance (Ohms)



P = Power (Watts)
I = Current (Amps)
E = Electromotive Force (Volts)



f = frequency in MHz
λ = wavelength

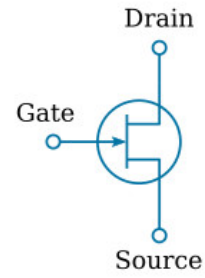
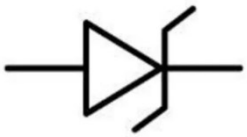
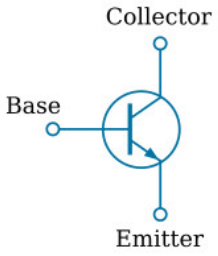
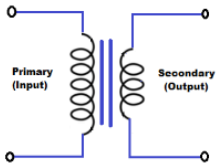
<u>"Q" signals on the General Exam</u>
QRL = Are you busy? / I am busy
QRN = Are you troubled by static? / I am troubled by static
QRS = Shall I send more slowly? / Send more slowly
QSL = Can you acknowledge receipt? / I am acknowledging receipt
QRV = Are you ready? / I am ready

<u>Morse Code Prosigns for General License Exam</u>
K – Over, anyone may reply
KN – Waiting for a specific station to respond
AR – End of message

<u>Call sign suffixes</u>
/AT = Temporary Technician (upgrade from Novice)
/AG = Temporary General - I passed my General but the FCC database has not been updated yet
/AE = Temporary Amateur Extra – I passed my Extra but the FCC database has not been updated yet

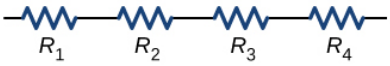
<u>Volunteer Examiner Coordinators (VEC)</u>
The VEC is an organization which coordinates the Volunteer Examiners (the volunteers who administer the exams) There are 14 VEC's – Anchorage ARC VEC, American Radio Relay Leage (ARRL), Central Alabama VEC, Golden Empire Amateur Radio Society (GEARS), Greater L.A. Amateur Radio Group (GLAARG), Jefferson Amateur Radio Club, Laurel Amateur Radio Club, Inc., MRAC VEC, Inc (Milwaukee), MO-KAN VEC Coordinator, Sandarc-VEC, Sunnyrvale VEC Amateur Radio Club. Inc., W4VEC Volunteer Examiners Club of America, W5YI-VEC, Wetern Carolina Amterur Radio Society VEC, Inc.
The National Conference of Volunteer Examiner Coordinators (NCVEC) develops, evaluates and revises the various amateur radio question pools.

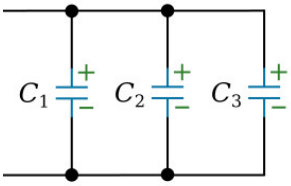
Component Schematics for General Class License

 Field Effect Transistor	 Zener Diode	 NPN Bi-Polar Junction Transistor	 Transformer	 Tapped Inductor

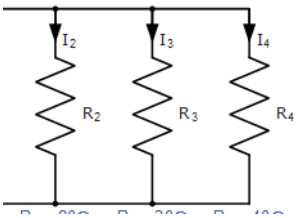
Calculating Resistance, Inductance and Capacitance

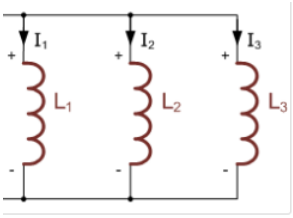
Resistors and Inductors are additive in a Series Circuit, Capacitors are additive in a Parallel Circuit

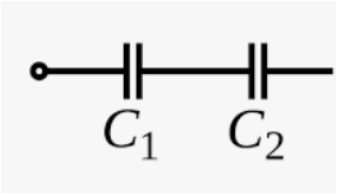




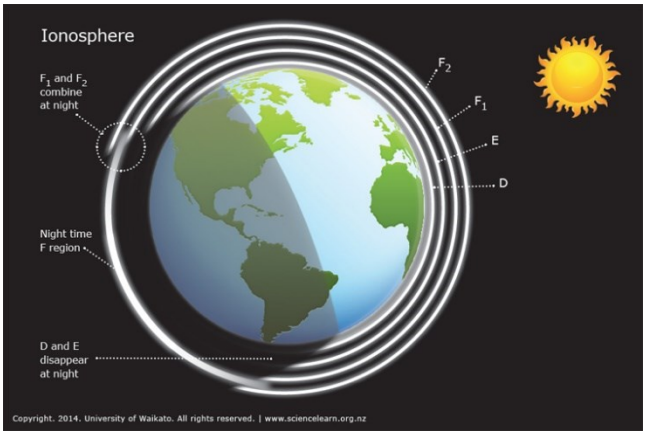
Resistors and Inductors are reciprocals in a Parallel Circuit, Capacitors are reciprocal in a Series Circuit







Ionosphere



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