QUIZ ONE – RADIO TRANSMISSION PRINCIPLES - NAME:

1. What is the formula describing a radio wave's *speed*, *wavelength* and *frequency*?

   _____

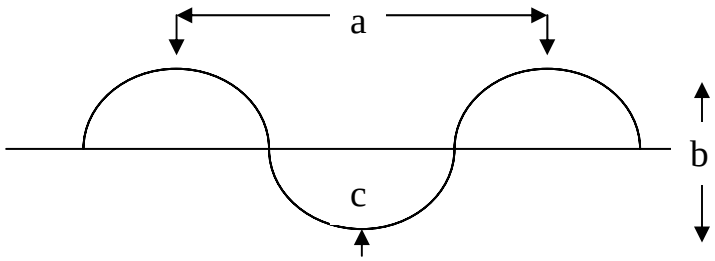
2. What will be the wavelengths of the radio frequencies of:

   2182 KHz _____

   27.88 MHz _____

   156 MHz _____

2. Label the parts of a radio wave drawn below.



3. What is a carrier wave?

   _____

4. Define the terms:

   Hertz _____

   Kilohertz _____

   Megahertz _____

   Gigahertz _____

5. Define these terms:
   Radiotelephony_____

   27 Meg _____

   VHF _____

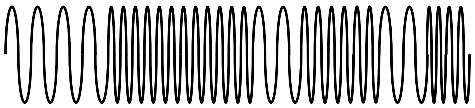
   MF/HF _____

6. List three factors that reduce the range of radio wave transmissions.

   _____ _____ _____

7. a. Name and describe the type of modulations as shown below.

MODULATION A.



MODULATION B.

   b. Will a SSB 2182KHz transmission be intelligible on a double side band receiver?

8. Describe how “sky waves” travel much further than “ground” waves.

   _____

   _____

9. Circle the frequency you would select for a distress call & message in mid Tasman Sea.

   27.88 MHz Ch16 2182KHz 8291KHz

10. Describe the problems of “skip” and how it occurs.

    _____

    _____