Drawing Transverse Waves Activity

PART 1.

In figure A. below, label the wave to show wave length, amplitude, crest and trough.

PART 2.

Using the wave in Figure A, measure the following: (mark the lengths you are measuring)

a) wave length - ___________________ mm

b) amplitude - _____________________ mm

c) If the wave in Fig.A is traveling at a rate of 280mm/second, what is its frequency?

(show work below) ______________ waves/sec
PART 3.

1. On the graph below, draw 3-cycles of a transverse wave with an amplitude of 3 cm and a wavelength of 5 cm. Label the wave length, amplitude, crest and trough.

If 1 cycle occurs every 2 seconds, calculate:

   Frequency

   Period

Calculate the wave speed in cm/s
2. On the graph below, draw 3-cycles of a transverse wave with an amplitude of 5 cm and a wavelength of 2 cm. Label the wave length, amplitude, crest and trough.

If 1 cycle occurs every 3 seconds, calculate:

- Frequency
- Period

Calculate the wave speed in cm/s