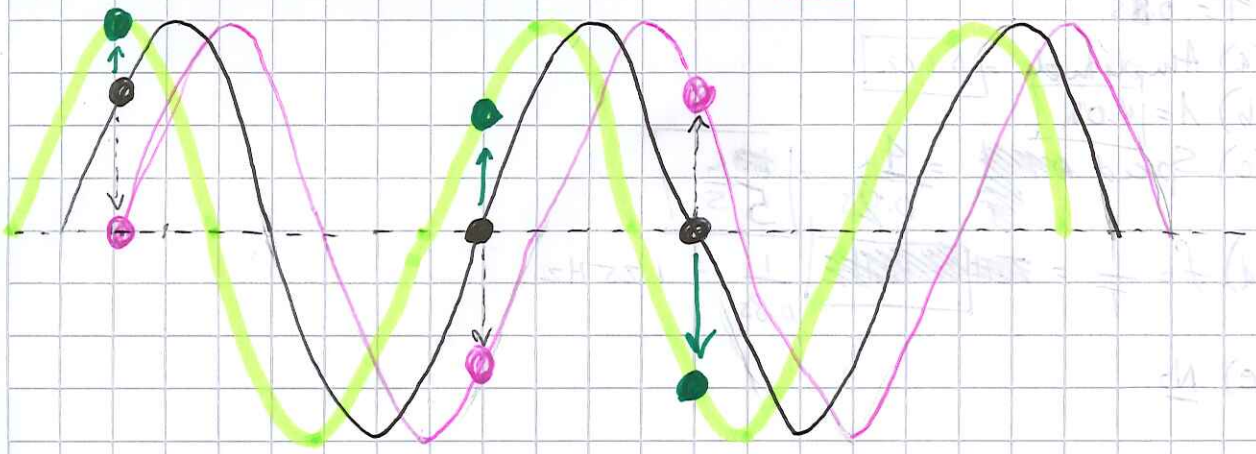
TSOKOS WAVES HW #1 p.225 #12-17

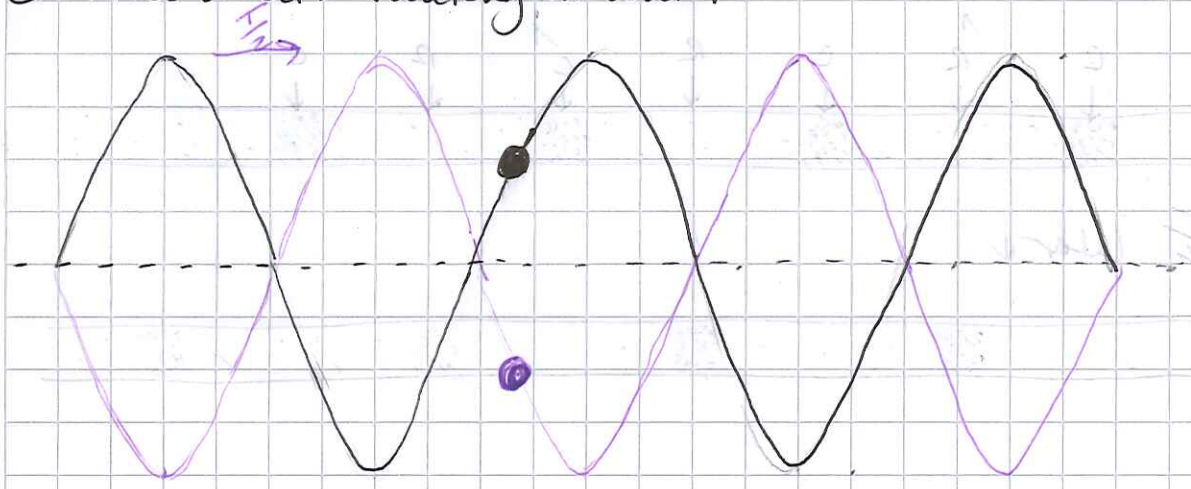
(12) Fig. 2.22 shows 3 pts. on a string RIGHT - DOWN - DOWN - UP



(13) What if the wave moving in Q #12 was moving LEFT?

LEFT → UP, UP, DOWN

(14) Piece of cork floating in water.



(15) Drawn figures of the same wave at 2 different times.
$T = 0.8\,s$

(a) Amplitude = 0.6 cm

(b) λ = 4.0 cm

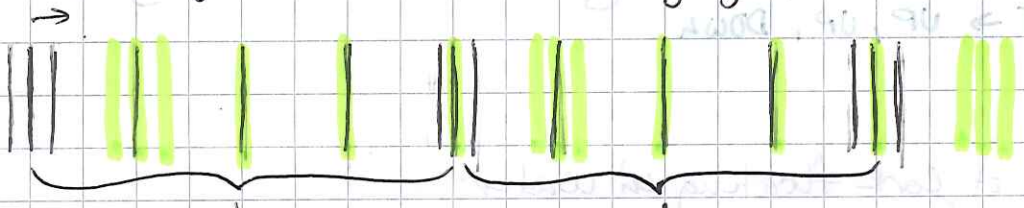
(c) Speed $= \frac{4\,cm}{0.8\,s} = \frac{5\,cm}{s}$

(d) $f = \frac{1}{T} = \frac{1}{0.8\,s} = 1.25\,Hz$

(e) No

(16) Picture of longitudinal wave (traveling right) = short time later

(a)



(b)

(17)