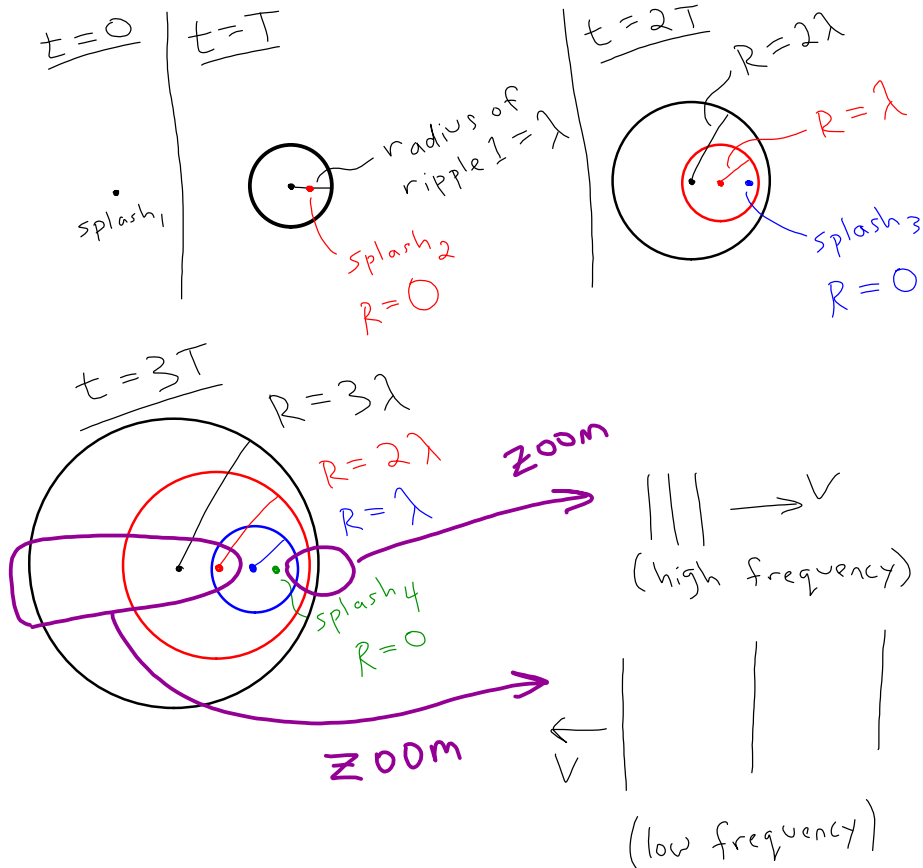


Is it possible to make the ripples travel faster?

NO!

experiment:

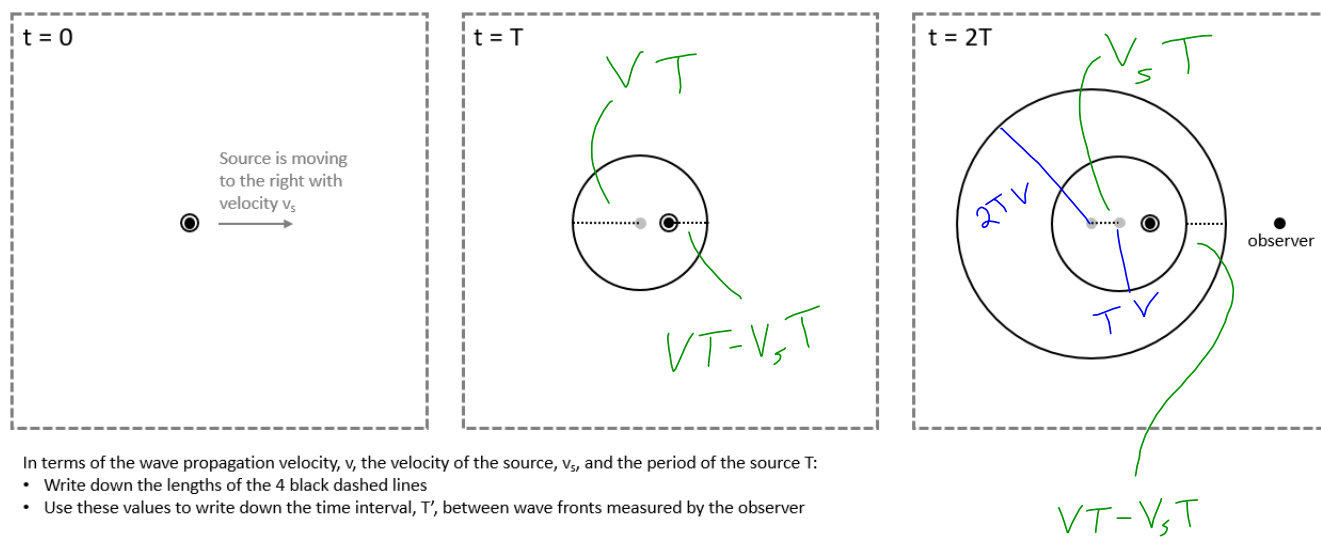
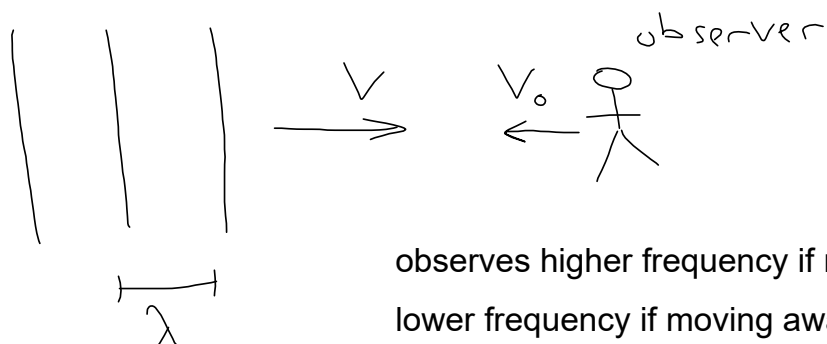


3 velocities:

V = speed of wave

V_s = velocity of the source

V_o = velocity of observer



$$T' = \frac{VT - v_s T}{V} \quad (\text{stationary observer})$$

$$T' = \frac{VT - v_s T}{V + v_o} \quad (\text{moving observer towards wave})$$