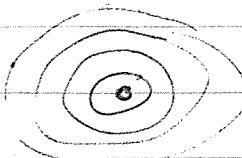


Aim Wave Phenomena

Waves have various shapes

Drop a Pebble in a pond - Point Source -



Wave is circular - Spreads outwards in all directions

Circles are wave fronts - All parts are a wave that are in-phase

Doppler Effect - Police Siren

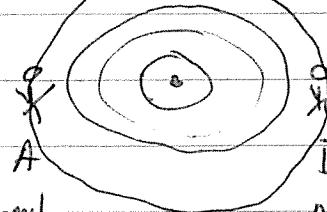
Change in observed (pitch) frequency between an observer & object

in motion

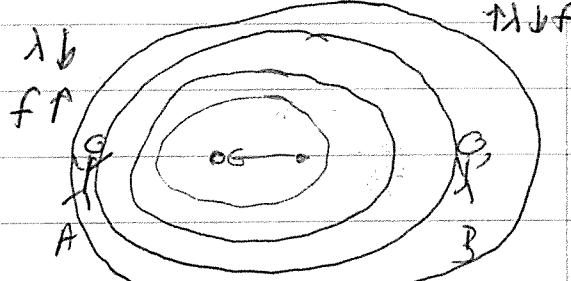
stationary source

Waves
fronts
equally
spaced

normal
 λ, f



normal
 λ, f



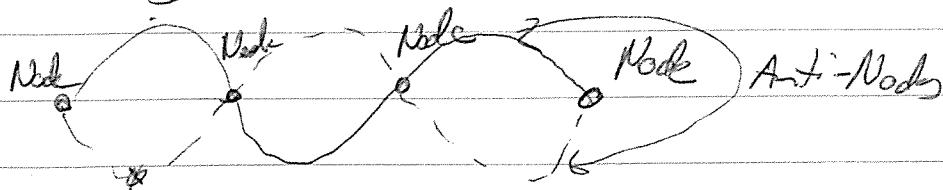
Source
moving
toward
A

As source moves toward A, car receives
more waves

- Does it matter if sand pt stationary or observe moves

Stop instead - No Affect is the same

Standing Waves - Sharp Dence w/ Slanty - Waves that have the same freq and amplitude



close off note

Nodes - Places where there is no motion

Anti-Nodes - Crest - trough combinations