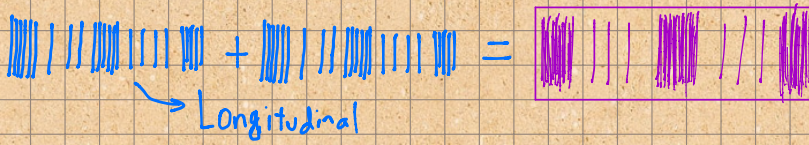
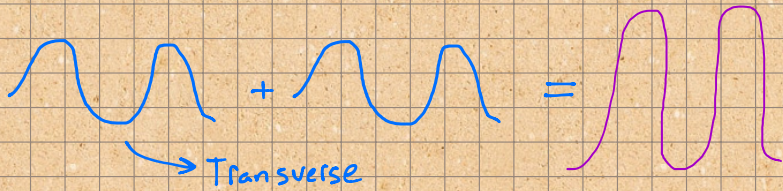


Warm-up:

- 1) Describe in your own words what a shockwave is.
- 2) Besides Jet Airplanes, what other items can produce them?
- 3) What do you think is the loudest noise you have heard?

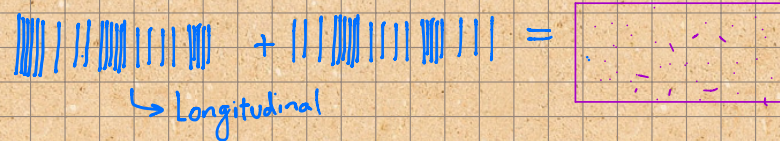
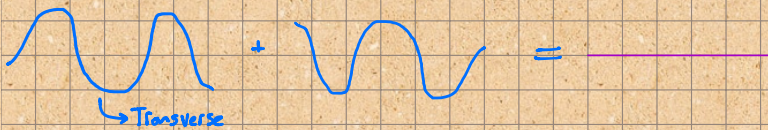
### Interference

- Constructive: Crests of one sound wave with crests of another



Ex: Amplifier copies the sound wave to enhance output

- Destructive: Crests overlap with troughs → Waves cancel



- Ex: Noise cancelling headphones send out a wave to cancel the background noise

- Real life examples: