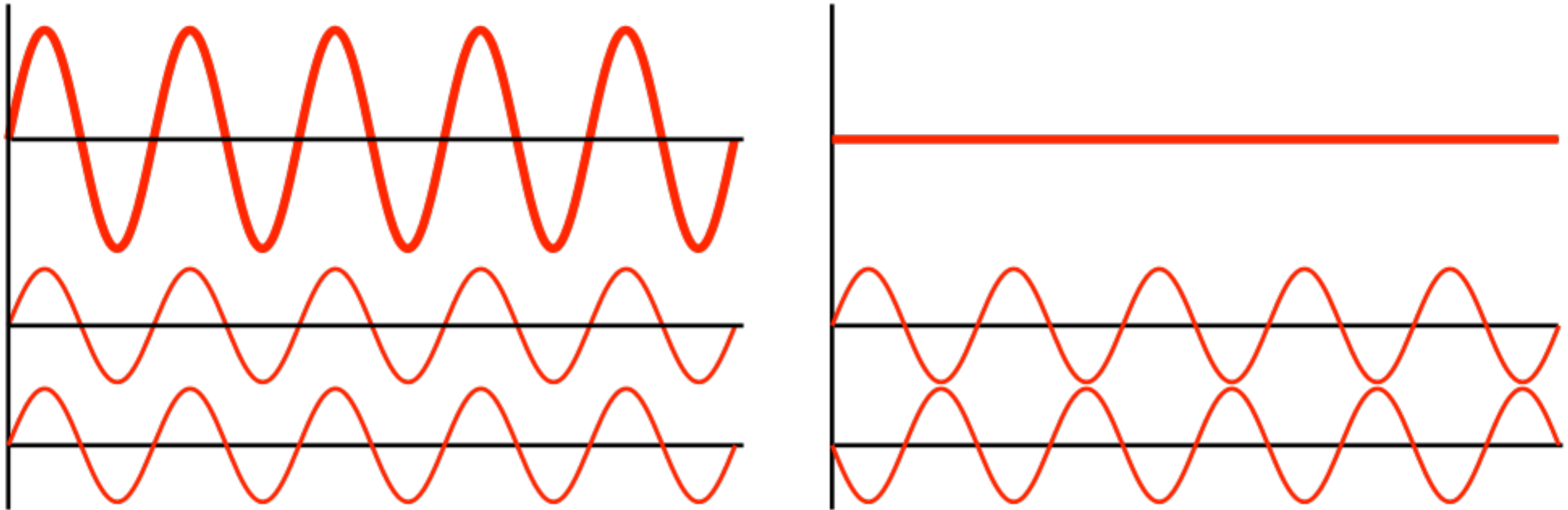


# Superposition

- When two waves are added together it is called **superposition**.
- Superposition is very common. We see it at the beach when waves travelling towards each other are combined at a point to make a large peak.
- Sometimes the effect is constructive (creating a larger wave), sometimes the effect is destructive (creating a smaller wave).



This shows the constructive and deconstructive superposition of two waves (the thick line is the final wave).

We can manually draw a superposition by adding the two waves at each point.