

Learning Intention

- Learn how waves add together.

Definitions

1. The principal of superposition states:

Questions

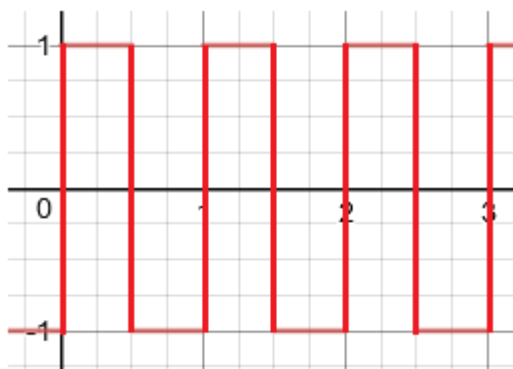
Use the following graphs for the questions. The x-axis is time in seconds, and the y-axis is displacement in metres. You will be asked to graph a sum of the waves.

Graph 1

Period:

Frequency:

Amplitude:

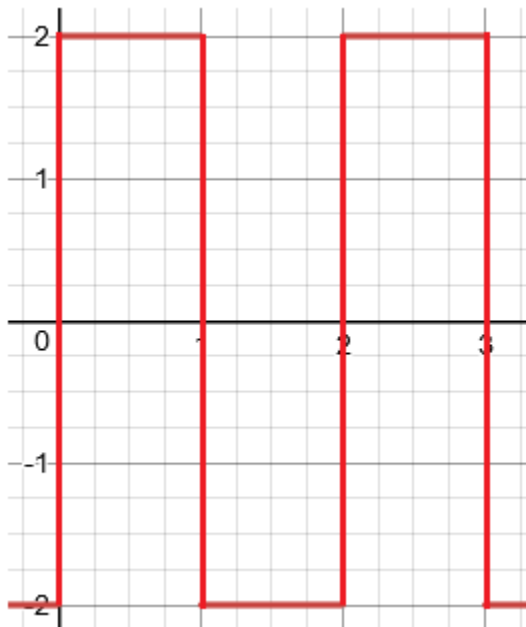


Graph 2

Period:

Frequency:

Amplitude:

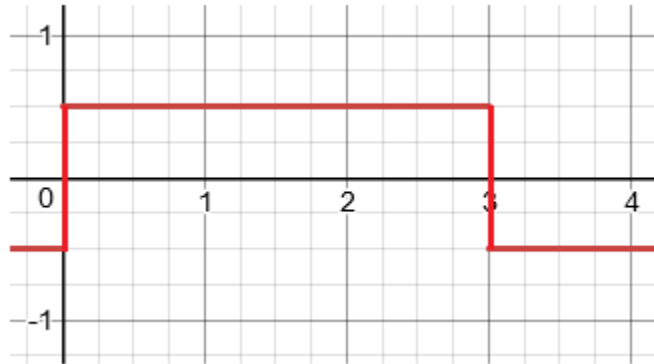


Graph 3

Period:

Frequency:

Amplitude:

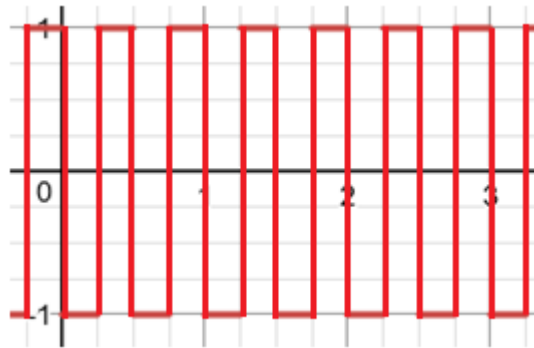


Graph 4

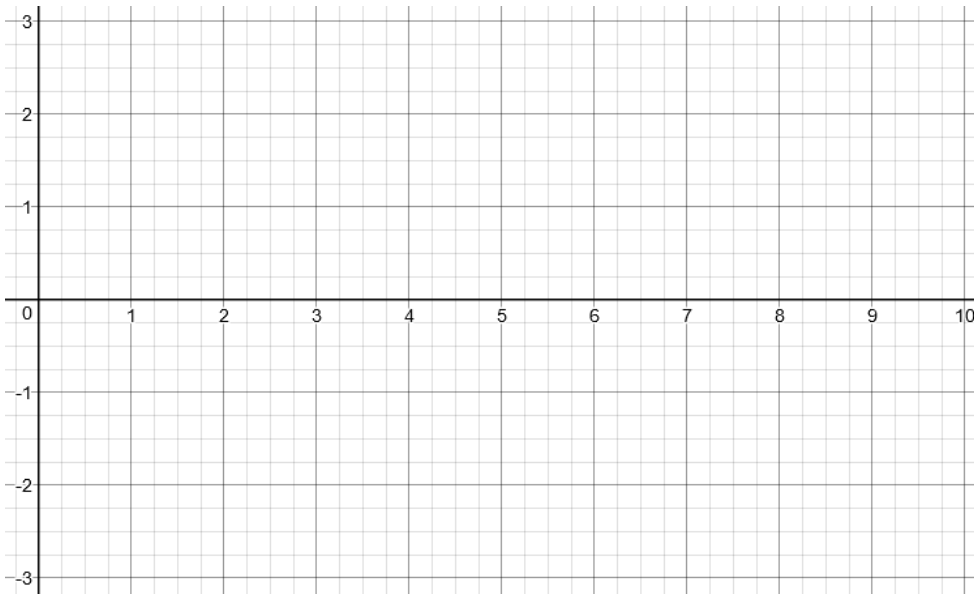
Period:

Frequency:

Amplitude:

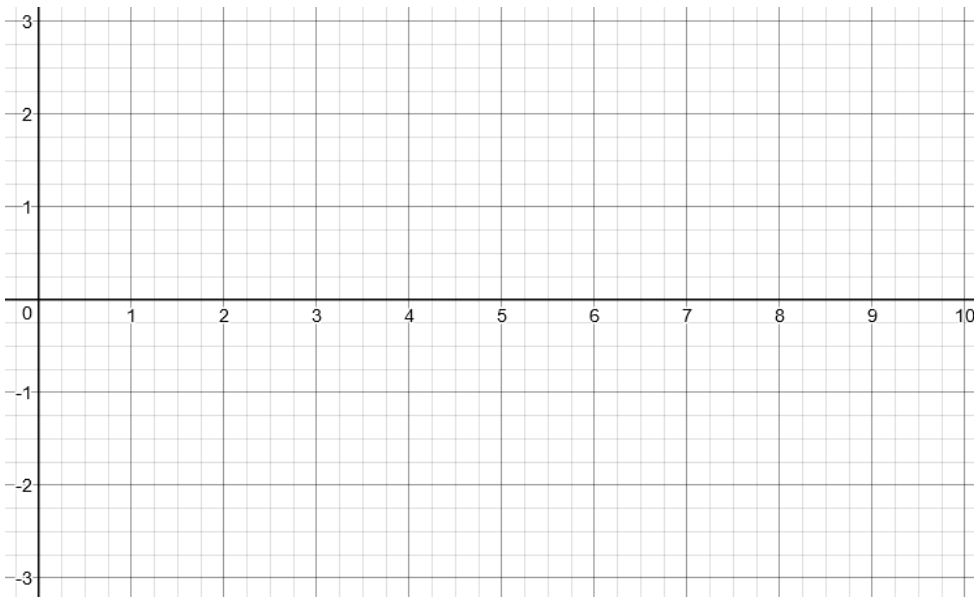


1. Graph the first wave plus the second wave.

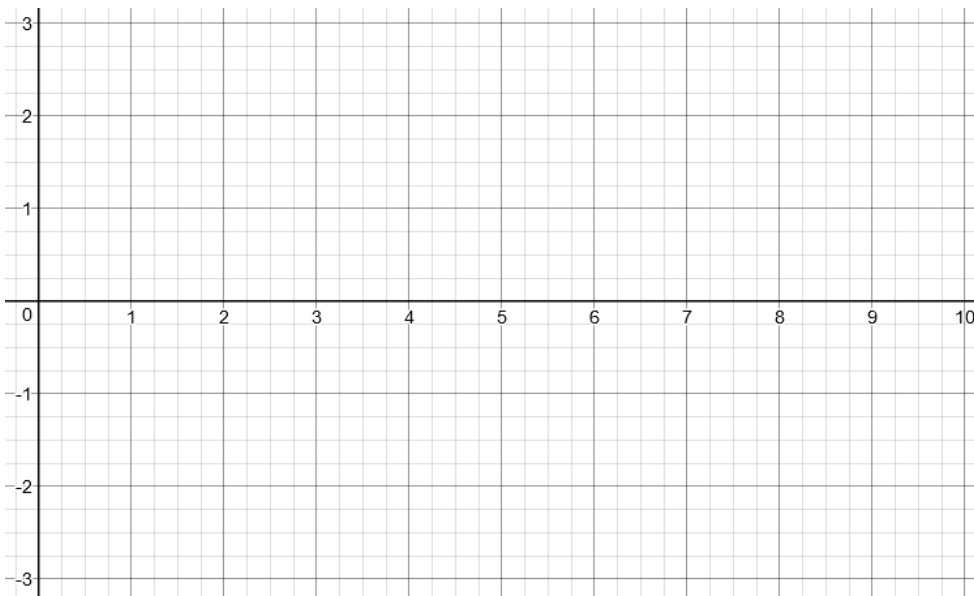


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Worksheet - Superposition of Waves

2. Graph the first wave plus the third wave.

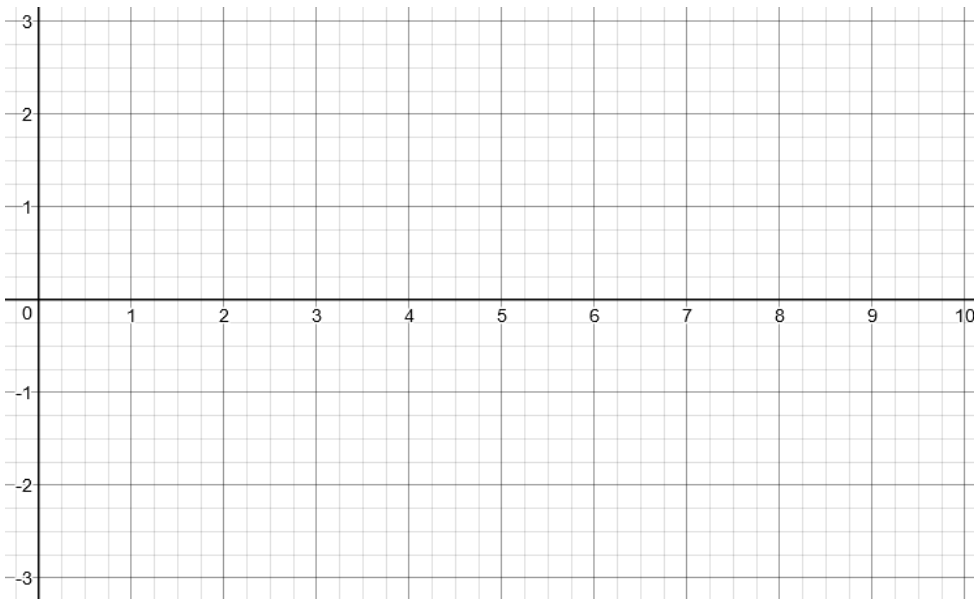


3. Graph the second wave plus the third wave.



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4. Graph the third wave plus the fourth wave.



5. Graph the first wave plus the third wave plus the fourth wave.

