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Date:

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## Reading Guide - Interference

Read about interference on pp. 510-511.

1. What is interference?
2. What are the two types of interference and what are their definitions?
3. Look at figure 12 on page 511. Read the entire caption. How is the amplitude of wave 3 related to the amplitudes of waves 1 and 2?
4. With your instructor, draw constructive interference and destructive interference

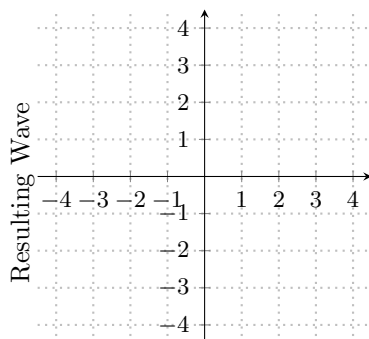
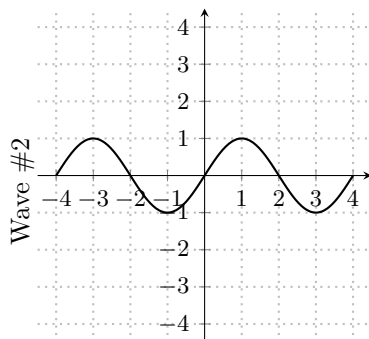
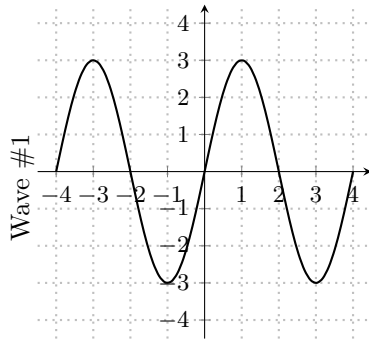
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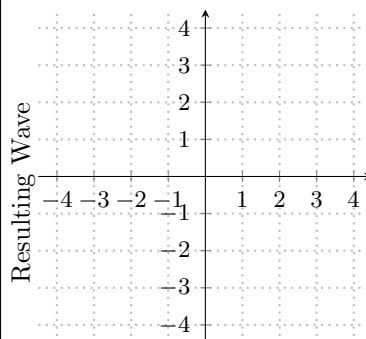
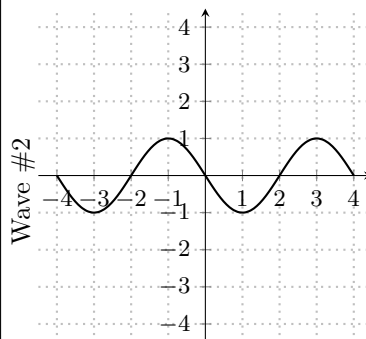
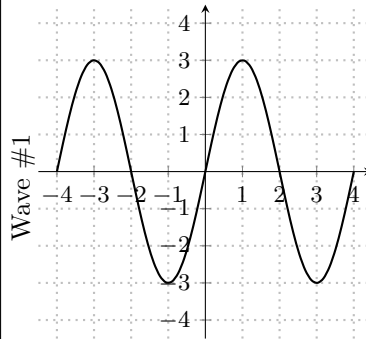
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Draw the resulting wave in each of the following cases:

### Problem 1



### Problem 2



### Problem 3

