

Name: _____

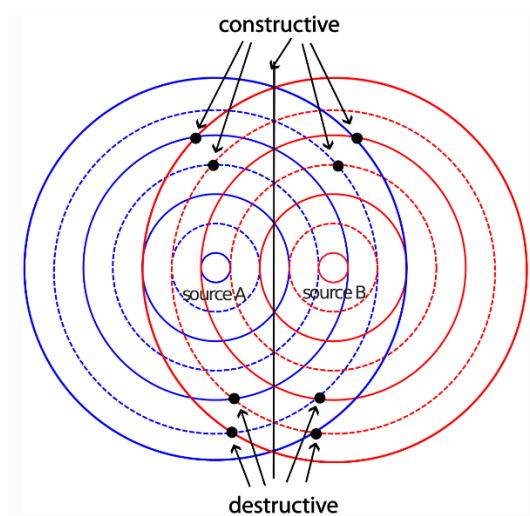
Class: _____

Due Date: _____

Physics Topic 31 – Two Source Interference

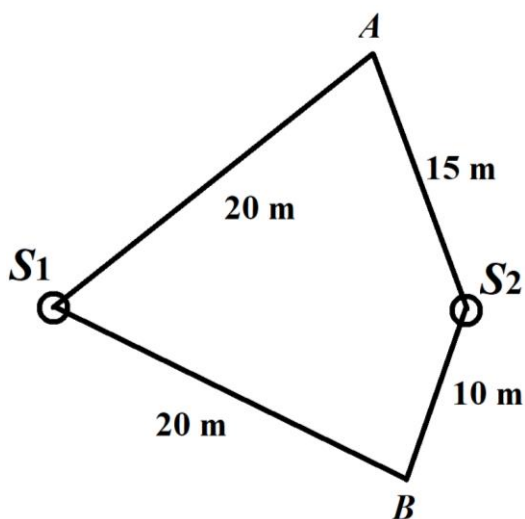
Answer the following questions. The solutions to this worksheet can be found on the YouTube channel Go Physics Go.

1. C: Answer the questions related to the image below:



- What do the solid blue lines represent?
- What do the dotted blue lines represent?
- What do the solid red lines represent?
- What do the dotted red lines represent?
- What occurs when two solid lines cross?

- f. What occurs when two dotted lines cross?
- g. What occurs when a solid line crosses a dotted line?
2. C: For double source interference state the equations for
- a. constructive interference:
- b. destructive interference:
3. Two coherent sources located at points S_1 and S_2 vibrate in phase with a wavelength of 10 m. Determine if points A and B are locations of *constructive interference* or *destructive interference*.



4. Two coherent sources located at points S_1 and S_2 vibrate in phase with a wavelength of 4 m. Determine if points A and B are locations of *constructive interference* or *destructive interference*.

