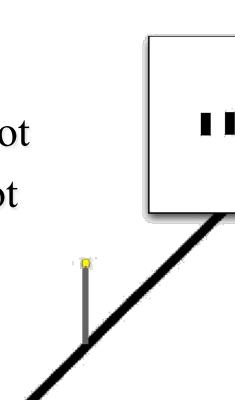
What do we expect from a light and shadow analysis using rays?



- 1. Two sharp bright spots
- 2. Two blurry bright spots
- 3. One wide blurry bright spot
- 4. One wide sharp bright spot
- 5. Something else



What does it look like when we add two sinusoidal waves that differ by a phase?

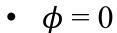


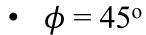
Which graph would look like the following sum of sine waves?

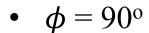
$$y(t) = A\sin(\omega t) + A\sin(\omega t + \phi)$$

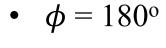
$$A = 1$$

if

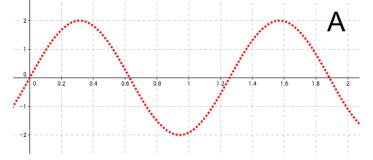


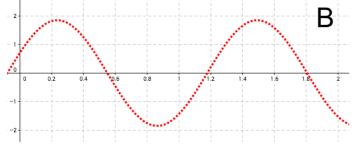


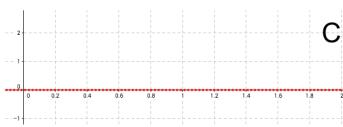


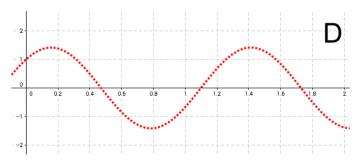


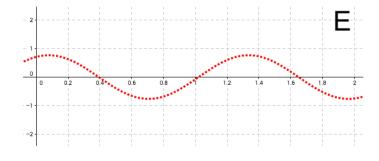
5/1/17











None of these work

F

It's a crest (max) now...what about 2 seconds later?



Say T = 4 sec

1. Still a crest (max)

- 2. Trough (min)
- 3. Zero
- 4. Other