

# At Home: Phasor Exercise

Two speakers emit equal intensity (call the amplitude  $A = 1$ ) sound of frequency  $f = 256$  Hz. The waves are in phase at the source. Suppose that the path difference to the observer is  $\delta = 0.3$  m (speaker 1 is closer).  $v = 330$  m/s.

Draw a phasor diagram that describes the two waves at the observer and the resulting wave. What is the resulting amplitude?

