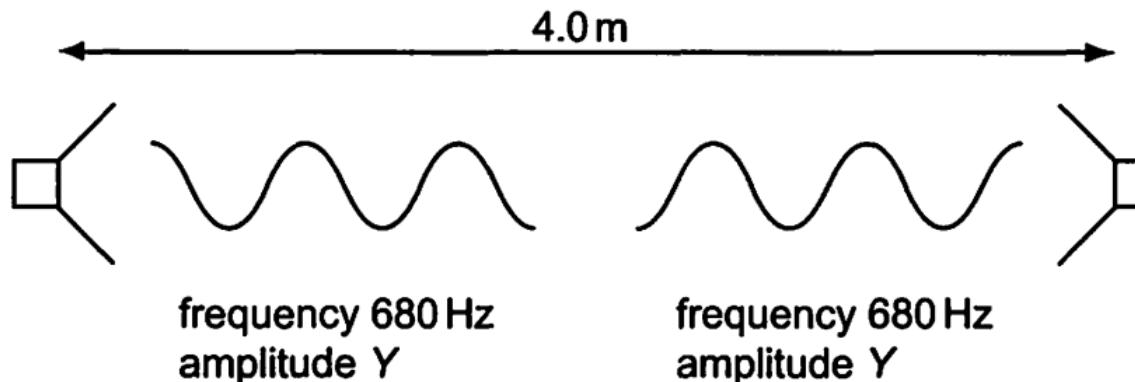


- 20 Two identical loudspeakers are placed directly opposite one another, 4.0 m apart. Both speakers emit sound waves in phase, of frequency 680 Hz and amplitude Y .



The speed of sound is 340 ms^{-1} .

What is the amplitude of the combined sound waves between the speakers and 0.75 m away from either speaker?

A 0

B $\frac{Y}{2}$

C Y

D $2Y$