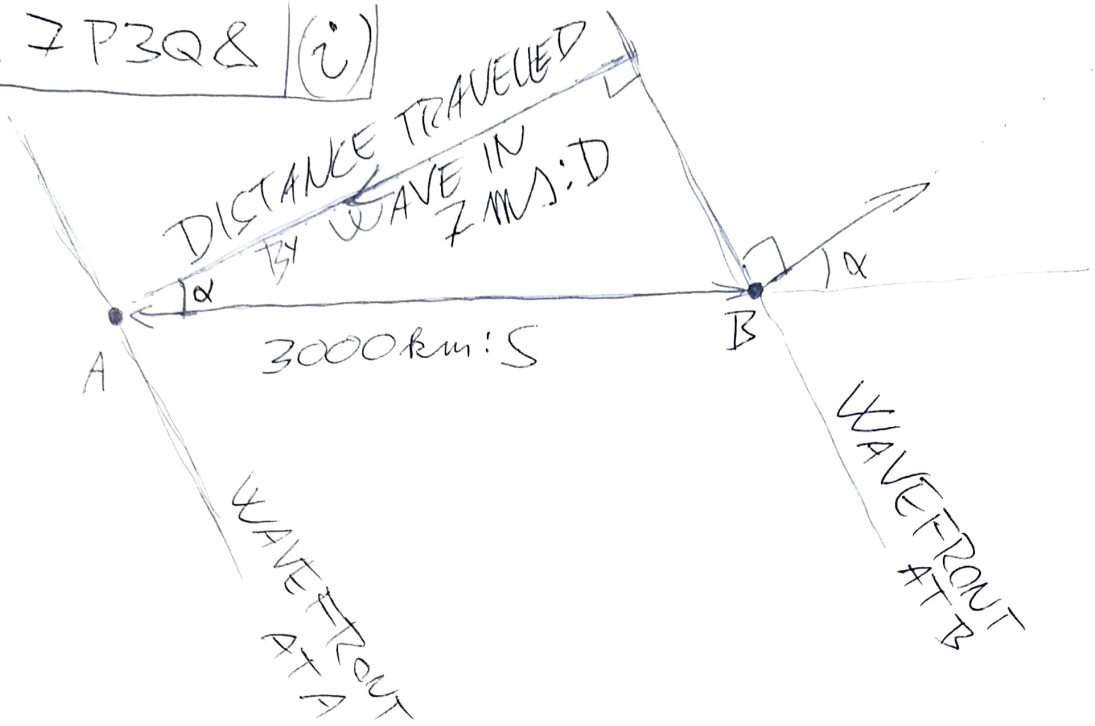
2017 P3Q8 (i)

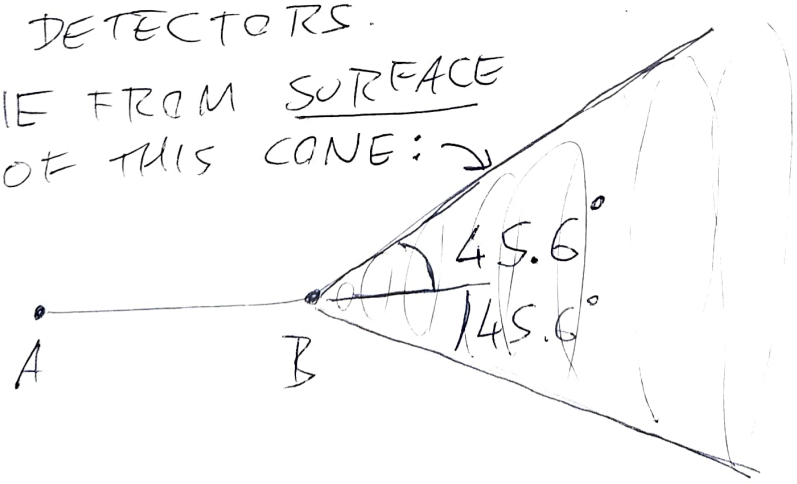


$$D = 0.007\,c \cong 2.1 \cdot 10^6\ m$$

$$\alpha = \arccos\frac{D}{S} \cong 0.8 \cong 45.6^\circ$$

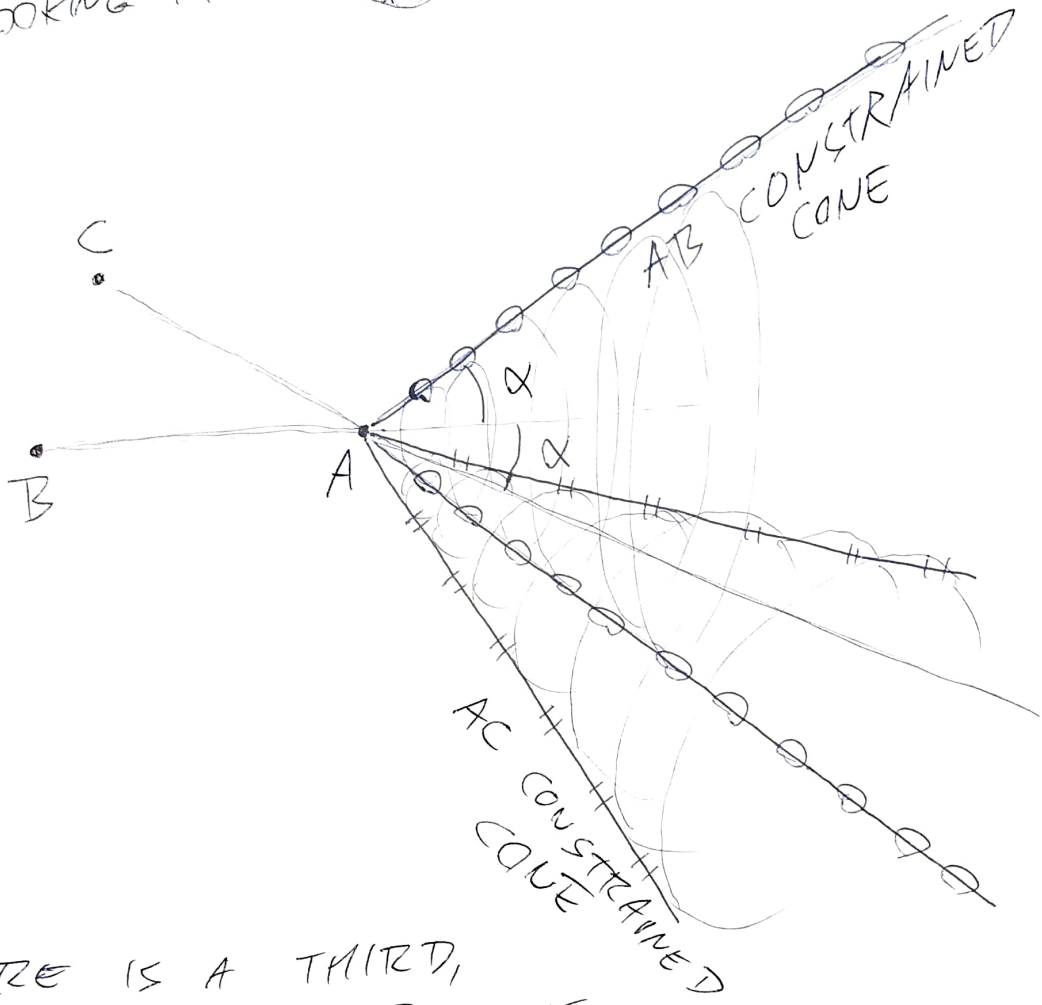
CONSTRAINT:
WAVE COULD'VE COME FROM AN ANGLE 45.6° FROM LINE CONNECTING TWO DETECTORS.

IE FROM SURFACE OF THIS CONE: ↘



ADDING A THIRD DETECTOR WOULD ADD MORE CONE-LIKE CONSTRAINTS TO THE SYSTEM.

IE, LOOKING FROM ~~ABOVE~~ ABOVE PLANE OF DETECTORS:



THERE IS A THIRD, BC-CONSTRAINED CONE, WHICH I HAVEN'T DRAWN TO KEEP THIS READABLE.

I WOULDN'T CHOOSE C TO LIE ALONG AB, BECAUSE THEN AB AND AC AND BC-CONSTRAINED CONES WOULD BE COAXIAL, WHICH OFFER LESS INFO THAN 3 NON-COAXIAL CONES.

(BY XY CONSTRAINED CONE I MEAN THE SPATIAL CONE-SHAPED CONSTRAINT IMPOSED BY MEASUREMENTS AT X & Y.)