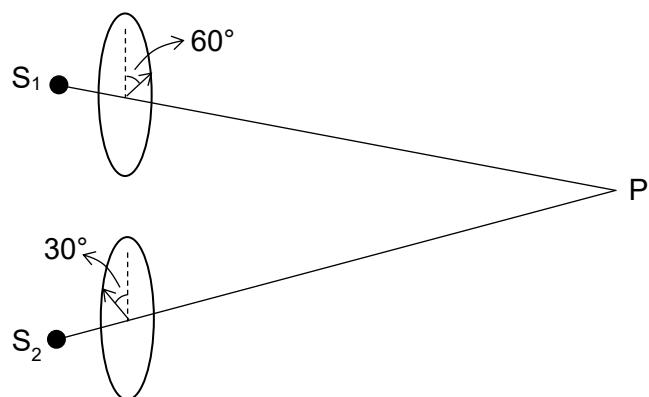


- 16** S_1 and S_2 produce waves in phase of amplitude A and intensity I that are polarized vertically. S_1P is equal to S_2P .

Waves from S_1 is made to pass through a polariser rotated 60° clockwise.

Waves from S_2 is made to pass through a polariser rotated 30° anticlockwise.

The 2 waves meet at point P.



What is the amplitude and intensity of the resultant wave at P?

resultant amplitude

resultant intensity

A

0

0

B

A

I



C

$1.37 \text{ } A$

$1.87 \text{ } l$



D

$2.0 \text{ } A$

$4.0 \text{ } l$