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Kelas - A

No.

Date

1) dik: $d = 0,6 \text{ mm} = 6 \times 10^{-4}$

$L = 1 \text{ m}$

$P_2 = 2 \text{ mm} = 2 \times 10^{-3}$

$n = 3$

* $\sin \theta \approx \tan \theta = P_2 / L = (2 \times 10^{-3}) / 1$

$\gamma = d \sin \theta / n$
 $= (6 \times 10^{-4}) (2 \times 10^{-3})$

$= \frac{12 \times 10^{-7}}{3}$

$= 4 \times 10^{-7}$

$= 4000 \times 10^{-10}$

$= 4000 \text{ Å}$

2) dik: $L = 1 \text{ m}$

Panjang gelombang = $5000 \text{ Å} = 5 \times 10^{-7}$

$P_1 = 0,2 \text{ mm} = 2 \times 10^{-4}$

$n = 1$

* $d = \frac{n \gamma}{\sin \theta}$

$\sin \theta = \tan \theta = P_1 / L = (2 \times 10^{-4}) / 1 = 2 \times 10^{-4}$

$d = \frac{n \gamma}{\sin \theta} = \frac{1 (5 \times 10^{-7})}{2 \times 10^{-4}}$

$= 2,5 \times 10^{-3}$

$= 0,0025 \text{ m}$

$= 2,5 \text{ mm}$

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Sistem Operasi