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 $10^{19} \exp (-0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$  or  $N_D = 1.26 \times 10^{16}$   
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 $E_6 = 13.537 \text{ eV}$  so  $\Delta E = 3.83 \text{ eV}$  (d)  $3 < k_a < 4$ ? 1st point:  $\Delta a = 3.44$ ? 2nd point:  $\Delta a = 4$ ? Then  $E_7 = 17.799 \text{ eV}$   
 $E_8 = 24.066 \text{ eV}$  so  $\Delta E = 6.27 \text{ eV}$  3.10  $6 \sin$

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$\cos ka = \cos(ka + a) = \cos ka \cos a - \sin ka \sin a$  Forbidden energy bands (a)  $ka = \pi$   $\cos ka = -1$  1st point ...

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