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$4 = 6.0165$  so  $\Delta E$   
 $= 1.87 \text{ eV}$  (c)  $2\pi$   
 $< ka < 3\pi$  1st  
point:  $ka =$

$2.54\pi$  2nd point:

$ka = 3\pi$  Then  $E$

$E_5 = 9.704 \text{ eV}$

$E_6 = 13.537 \text{ eV}$  so

$\Delta E = 3.83 \text{ eV}$  (d)

$3\pi < ka < 4\pi$  1st

point:  $ka =$

$3.44\pi$  2nd point:

$ka = 4\pi$  Then  $E_7$

$= 17.799 \text{ eV}$   $E_8 =$

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24.066 eV so  $\Delta E$   
= 6.27 eV  $3.10 \cdot 6$   
 $\sin \cos \cos a a$   
 $a a a + a = ka$

Forbidden energy  
bands (a)  $ka = \pi$   
 $\Rightarrow \cos ka = -1$   
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would decrease  
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