

Country Code: Student Code:

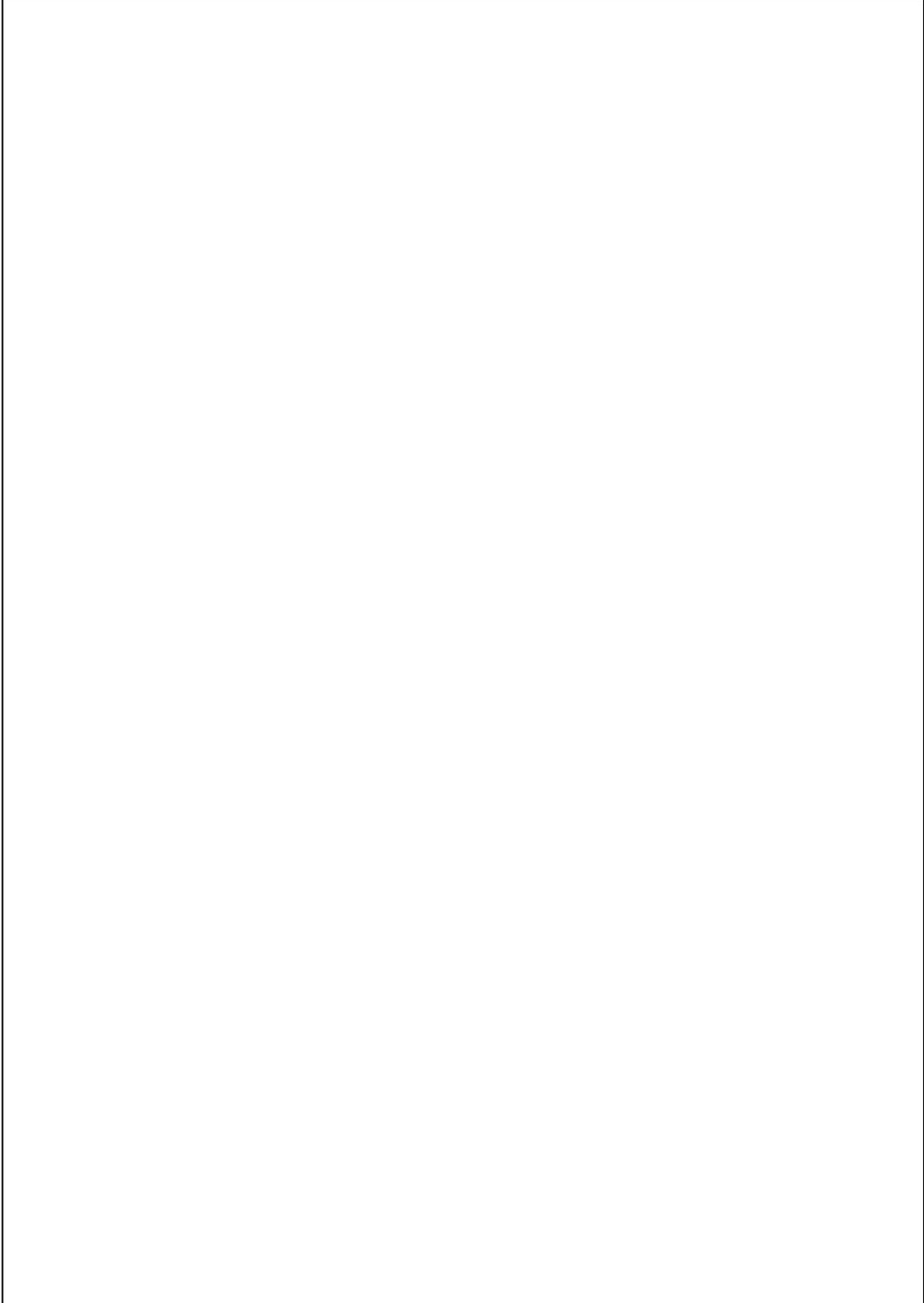


Question 2

(a)

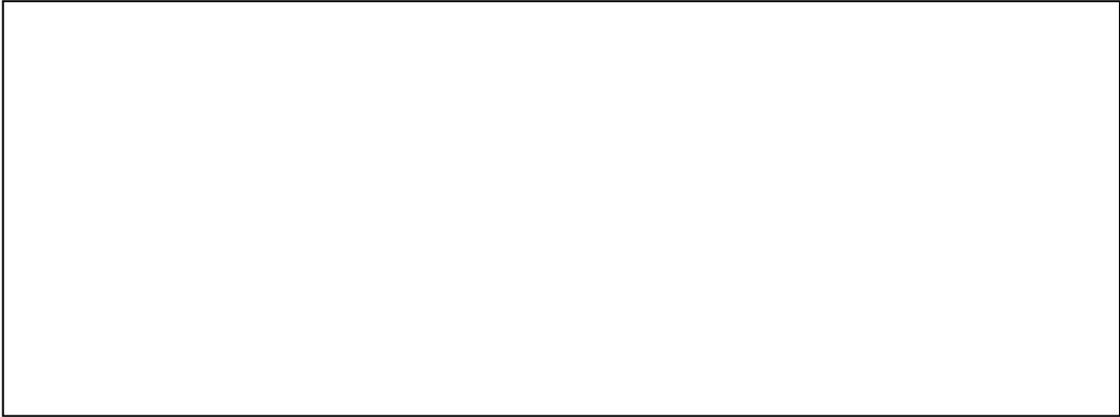
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(b)

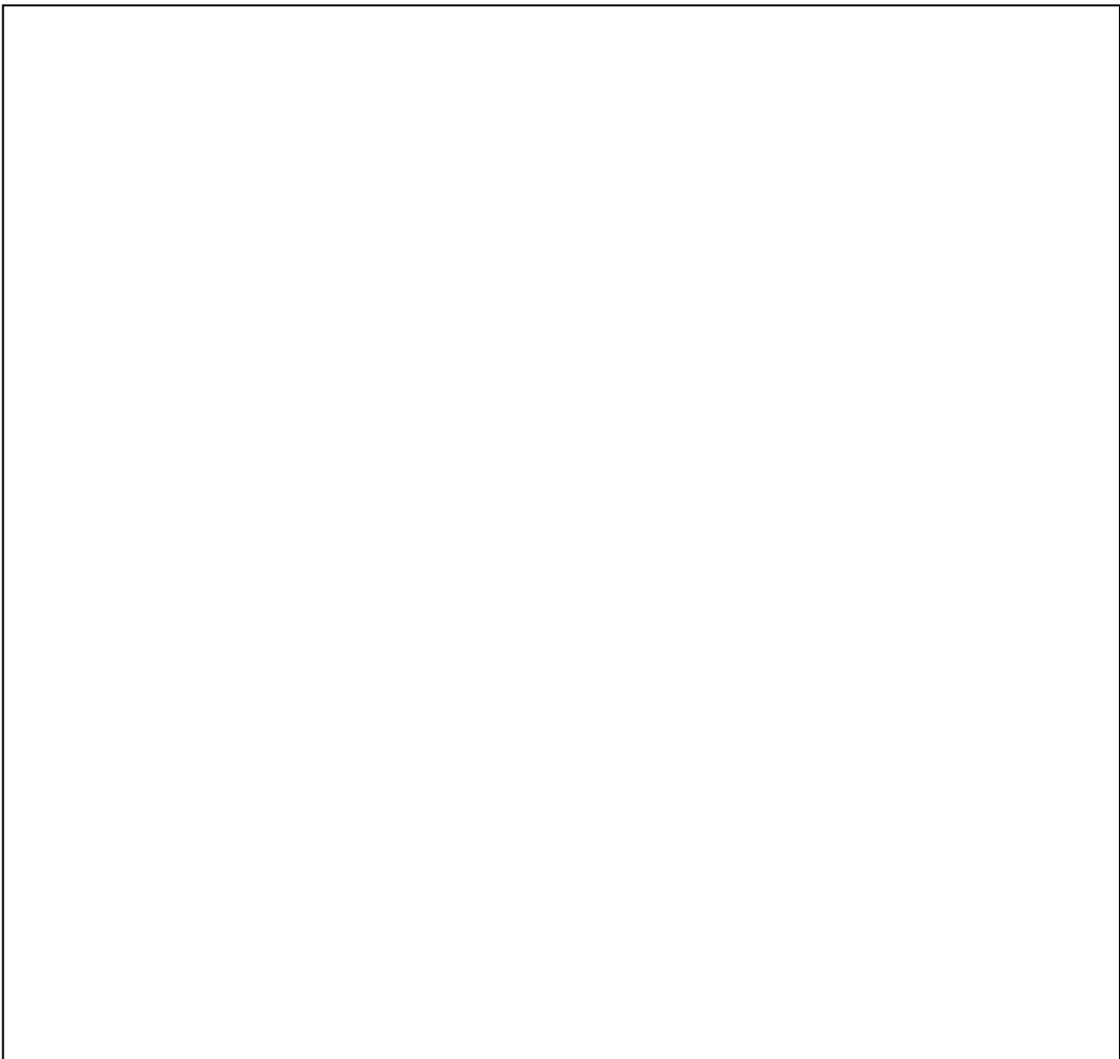


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(c) (i)



(ii)

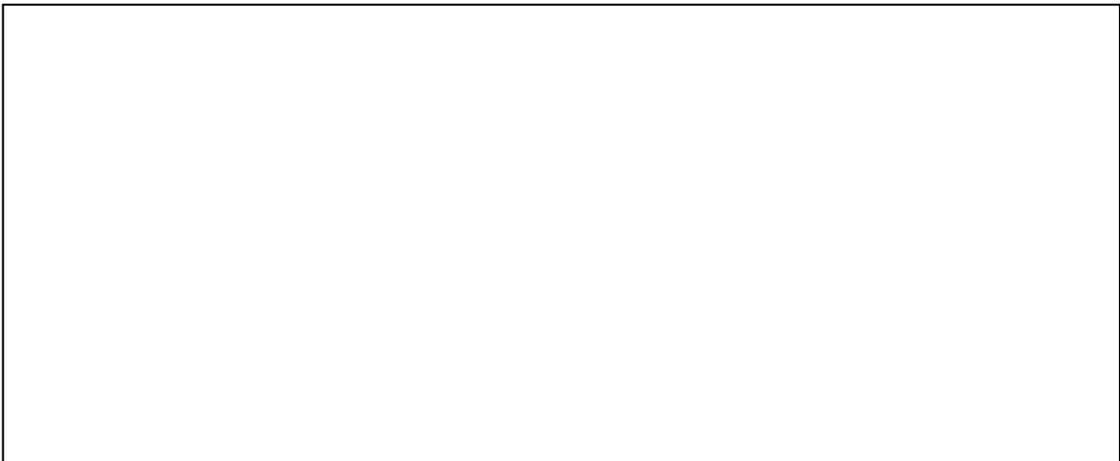


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(d) (i)



(ii)

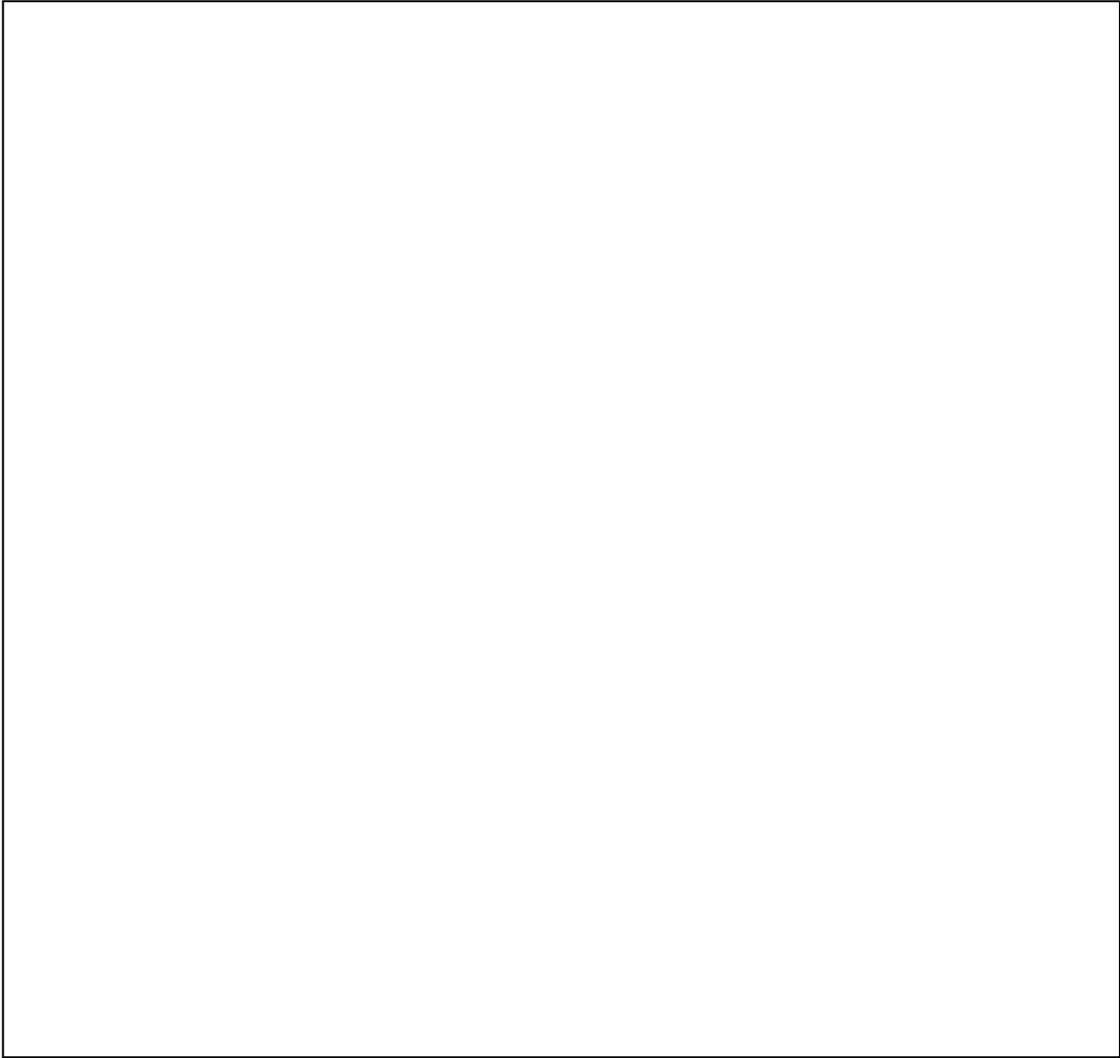


(iii) If the electron wave is a spherical wave instead of a plane wave, is the fringe spacing larger, the same or smaller than the fringe spacing calculated in (ii)?

- Larger
- Same
- Smaller

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(d) (iv)



(v)

