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## 1 Interactions of Particles and Radiation with Matter

### Problem 1.1

*Solution:*

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### Problem 1.2

*Solution:*

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### Problem 1.3

*Solution:*

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### Problem 1.4

*Solution:*

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### Problem 1.5

*Solution:*

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### Problem 1.6

*Solution:*

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### Problem 1.7

*Solution:*

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### Problem 1.8

*Solution:*

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