**UNIVERSITY OF GAZİANTEP**

**DEPARTMENT OF ENGINEERING PHYSICS**

**EP 436 ENGİNEERİNG PHYSICS LABORATORY – II**

**Exp 4: Inverse Square Law**

**Name-Surname:**

**Student ID:**

**Submission Date:**

**DATA SHEET**

**Table 1:** Experimental values for β and 𝛄 sources

|  |  |  |
| --- | --- | --- |
| **Distance r from the source (cm)** | **Counts per minute For β** | **Counts per minute For 𝛄** |
| 1 | 474 | 456 |
| 2 | 368 | 183 |
| 3 | 253 | 145 |
| 4 | 129 | 84 |

**Calculations:**

* Draw counts per minute versus distance 1/r and 1/r2 graphs for beta and gamma source separately by using the data given in Table 1.
* Write down the physical phenomenon obey the rule of inverse square law