Q1.1:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **i** | **midterm,** xi | **final,** yi | **xi^2** | **yi^2** | **xiyi** | **yi hat** | **ei^2** |
| 1 | 1.5 | 2.5 | 2.25 | 6.25 | 3.75 | 1.83974359 | 0.43593853 |
| 2 | 4 | 3.5 | 16 | 12.25 | 14 | 4.05128205 | 0.3039119 |
| 3 | 3 | 4 | 9 | 16 | 12 | 3.16666667 | 0.69444444 |
| 4 | 3 | 2.5 | 9 | 6.25 | 7.5 | 3.16666667 | 0.44444444 |
| 5 | 4.5 | 5 | 20.25 | 25 | 22.5 | 4.49358974 | 0.25645135 |
| 6 | 2 | 1.5 | 4 | 2.25 | 3 | 2.28205128 | 0.61160421 |
| **sum** | 18 | 19 | 60.5 | 68 | 62.75 | 19 | 2.74679487 |
| **mean** | 3 | 3.16666667 | 10.0833333 | 11.3333333 | 10.4583333 | 3.16666667 | 0.45779915 |

Q1.2