|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Speed | MPG |  |  |  |
| x | y |  |  |  |
| 20 | 24 | -1.265 | -1.044 | 1.321 |
| 30 | 28 | -0.6325 | 0.4473 | -0.2829 |
| 40 | 30 | 0 | 1.193 | 0 |
| 50 | 28 | 0.6325 | 0.4473 | 0.2829 |
| 60 | 24 | 1.265 | -1.044 | -1.321 |



The correlation coefficient is:

There is no linear relationship but looking at the scatterplot there is clearly a parabolic relationship.