**6.9 Modeling with Polynomial Functions**

**Use finite differences and a system of equations to find a polynomial function that fits the data.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | 1 | 2 | 3 | 4 | 5 | 6 |
| **f(x)** | 6 | 15 | 22 | 21 | 6 | -29 |