**End Behavior**

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Leading Coefficient** | **Left End**$$\lim\_{x\to -\infty }f(x)$$ | **Right End**$$\lim\_{x\to \infty }f(x)$$ |
| Even | Positive(+) |  |  |
| Even | Negative(-) |  |  |
| Odd | Positive(+) |  |  |
| Odd | Negative(-) |  |  |

**Type of Zeros (Intersection)**

|  |  |  |
| --- | --- | --- |
| **Multiplicity**(degree on the factor) | **Type of Intersection** | **Behavior** |
| 1 | Straight | Crosses straight through |
| Even(2,4,6,8,…) | Tangent | Bounces |
| Odd (greater than 1)(3,5,7,9,…) | Inflection | Slides through |