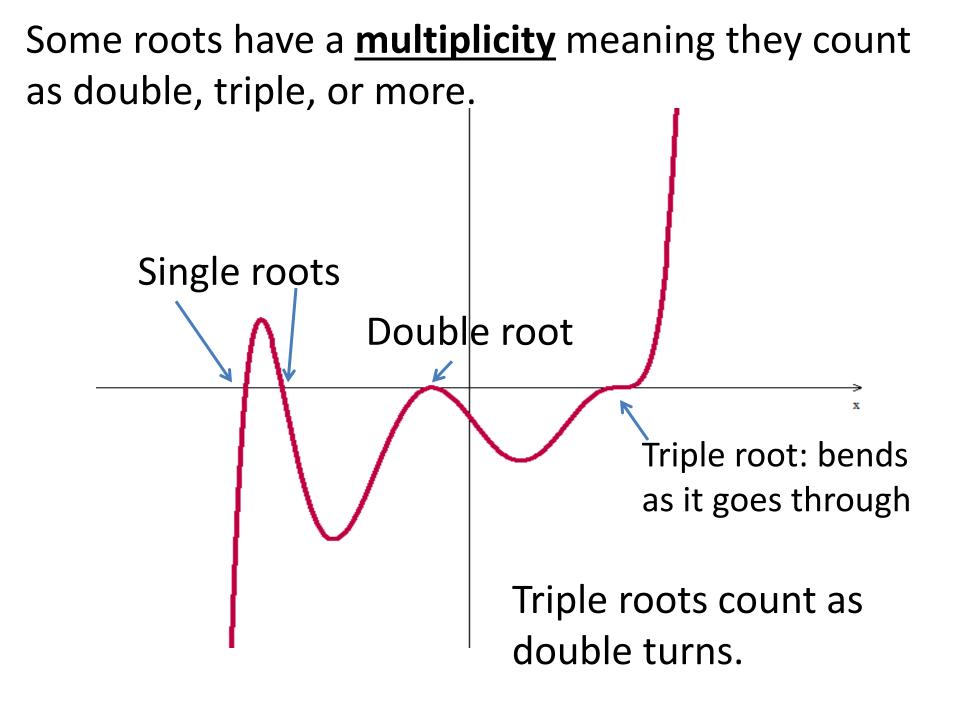
## Multiplicity of Roots

The number of zeros (roots, solutions) of a polynomial is the same as its degree.

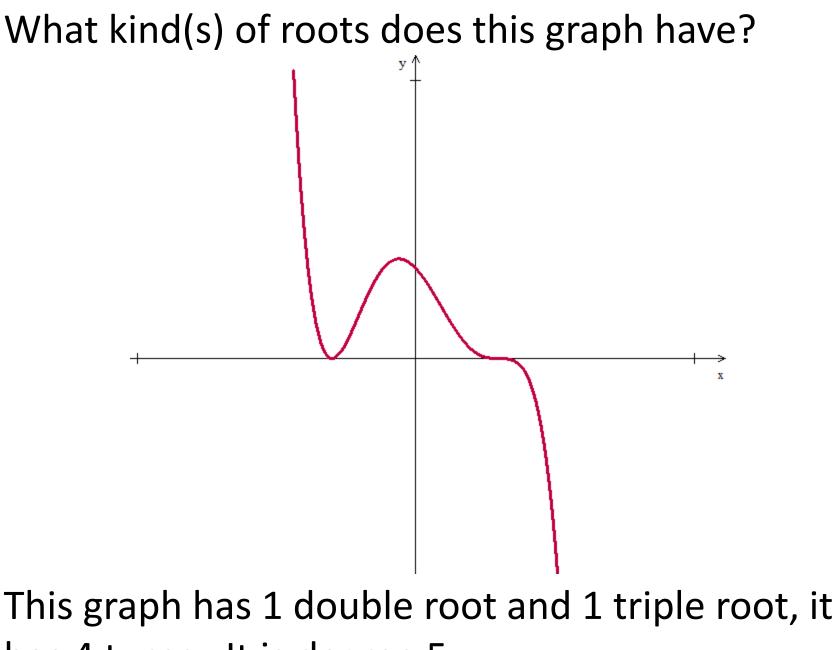
A 4<sup>th</sup> degree polynomial will have 4 zeros.

The number of turns (relative mins/maxs) is one less than the degree of the polynomial.

A 4<sup>th</sup> degree polynomial will have 3 turns.



## What kind(s) of roots does this graph have? х This graph has 2 double roots and 1 single root, 4 turns. It is degree 5.



has 4 turns. It is degree 5.

