

A linear relation models a phenomenon where the rate of change is constant. A nonlinear relation models a phenomenon with a variable rate of change.

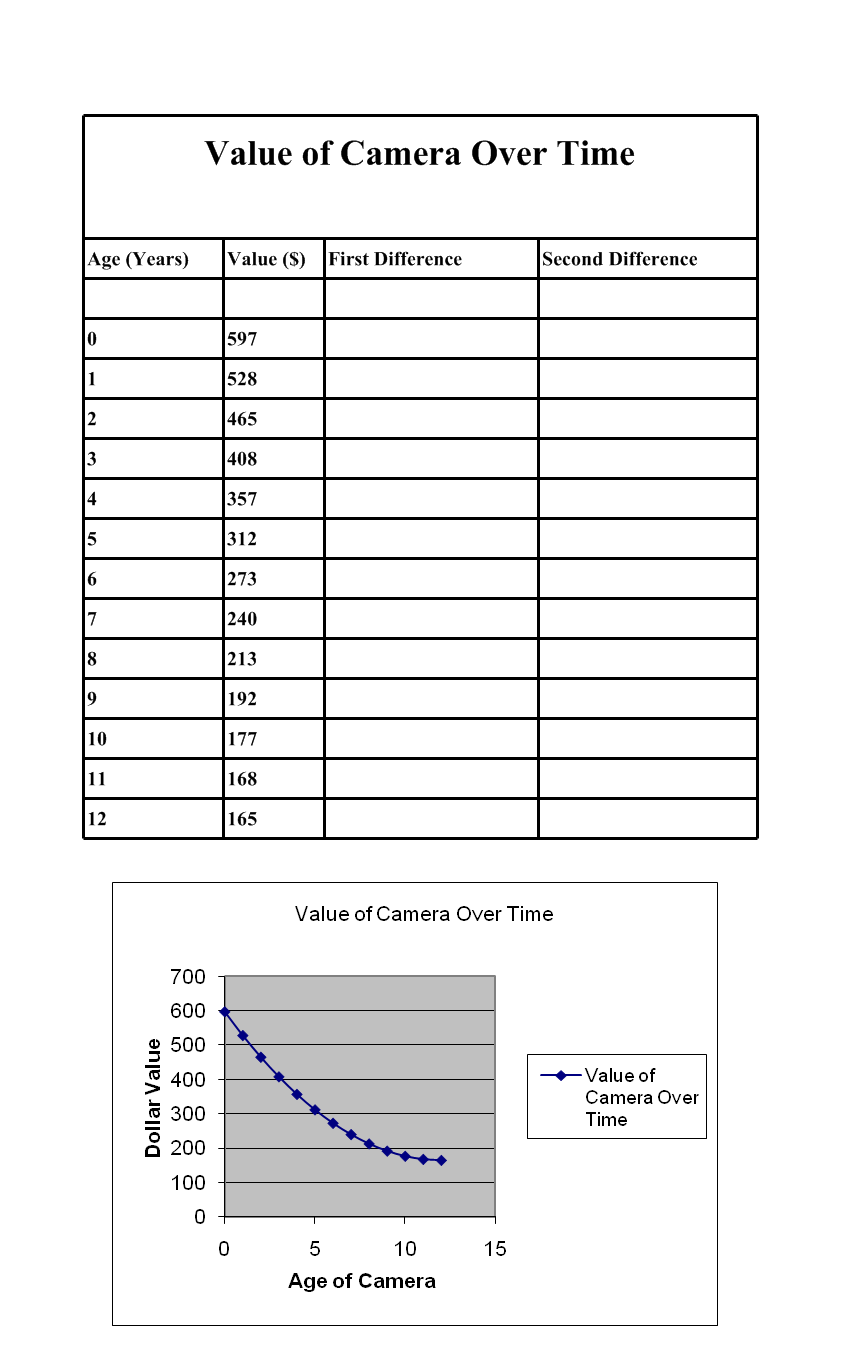
The **degree** of a one-variable polynomial is the highest exponent that appears in any term of the expanded form of the polynomial.

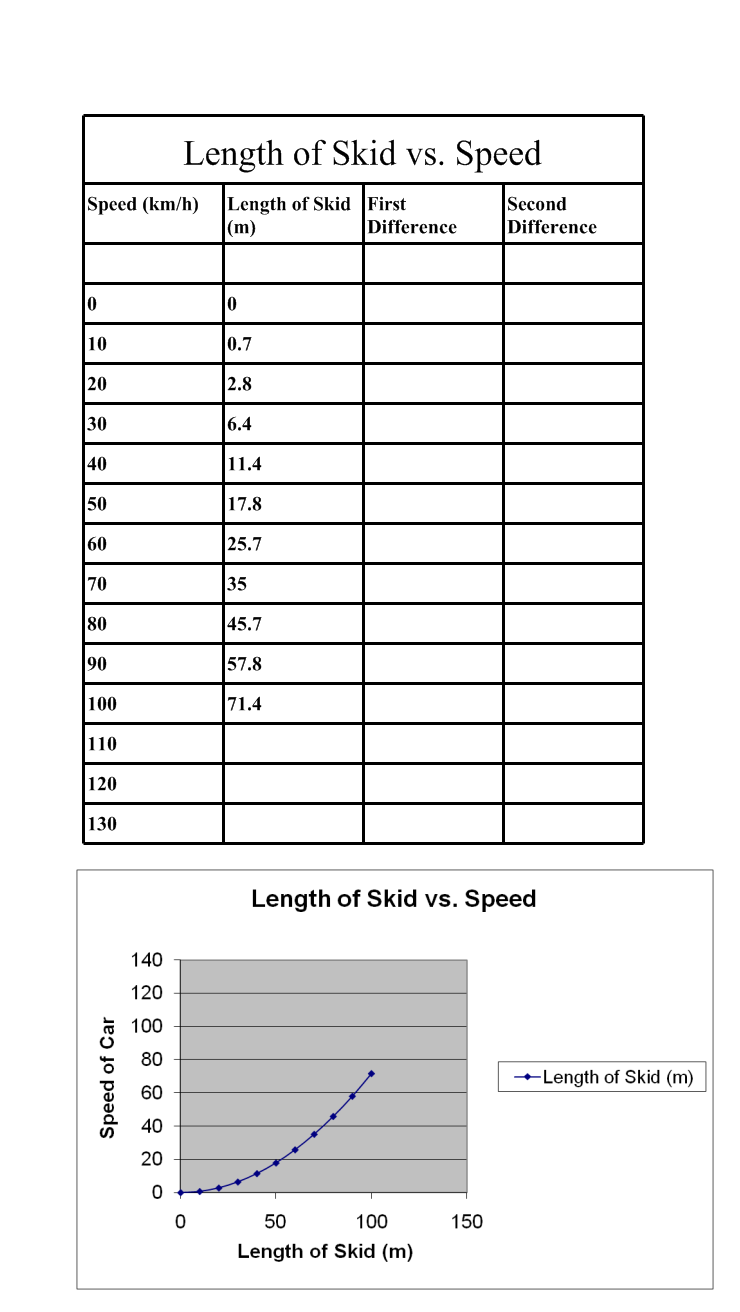
For Example: 16w - 2w2 ⇒ Degree of 2

2x4 + 4x3 + 8x2 ⇒ Degree of 4

5x2 (2x4 - 3x3 ) ⇒ Degree of 8

A polynomial of **degree 2** models a quadratic relation.





**Homework**

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