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Exponential Growth and Decay

In exponential growth, the quantity increases by a fixed amount at regular intervals, while in exponential decay, it decreases by a fixed amount. Here are both formulas.

Exponential Growth the number of times that interest is compounded per year

$$FV = PV \cdot (1 + r)^n$$

Future Value Present Value Initial Investment Value Interest rate as in decimal

Exponential Decay the number of times that interest is compounded per year

$$FV = PV \cdot (1 - r)^n$$

Future Value Present Value Initial Investment Value Interest rate as in decimal

Example 1: $FV = 5000(1 + 0.05)^3$

Present Value (PV): \$5000

Growth factor rate: 0.05 = 5% Growth

n: 3 years

Example 2: $FV = 25400(1 + 0.25)^4$

Present Value (PV): 25400

Growth factor rate: 25% Growth

n: 4 years

Example 3: $FV = 7500(1 - 0.07)^8$

Present Value (PV): \$7500

Decay factor rate: 0.07 = 7% Decay

n: 8 years

Example 4: $FV = 2235(1 - 0.16)^5$

Present Value (PV): \$2235

Decay factor rate: 16% Decay

n: 5 years

Finding the Growth or Decay factor

- ◆ Subtract one from the expression in parenthesis
 - If it is negative, It's DECAY
 - If it is positive, It's GROWTH
- ◆ Convert the decimal number to percent by multiplying by 100

Determine the decay or growth factor

Exercise 1: $FV = 5650(0.88)^6$

$0.88 - 1 = -0.12$ 12% Decay

Exercise 2: $FV = 3485(1.34)^7$

$1.34 - 1 = 0.34$ 34% Growth

Exercise 3: $FV = 410(1.023)^4$

$1.023 - 1 = 0.023$ 2.3% Growth

Exponential Growth And Decay Study Guide

Miriam A. Leiva



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web the hyperborean cycle is a series of short stories by clark ashton smith that take place in the fictional prehistoric setting of hyperborea smith s cycle takes cues from his friends h p lovecraft and robert e howard and their works the cycle combines cosmic horror with an iron age setting

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