

ALGEBRA II

Exponents

$$\log_a a = \log_a a^{1\text{ (power of 1)}} = 1$$

$$a^0 = \log_a a^{-1} = \frac{1}{a^1} = \frac{1}{a}$$

- a is the base ($a > 0$, $a \neq 1$)
- x is the exponent
- x is the reciprocal of a^x , or a^{-x}

$$\log_a x = \log_{a^m} x^m \text{ (Common Log)}$$

$$\log_a x = \log_a x^m \cdot \frac{1}{m} \text{ (Power of Log)}$$

$$\log_a (xy) = \log_a(x) + \log_a(y)$$

$$\log_a \left(\frac{x}{y} \right) = \log_a(x) - \log_a(y)$$

$$\log_a (a^x) = x = \log_a(a^x)$$

Changing Log Base

$$\log_a(x) = \frac{\log_b(x)}{\log_b(a)}$$

$$\text{Example: } \log_2 8 = \frac{\log_{10} 8}{\log_{10} 2} = \frac{.9}{.3} = 3$$

On your **SCIENTIFIC**

Logarithmic Regression

Arithmetic Sequence

On each step d is $a_n - a_{n-1}$

$$\text{Example: } a_n = a_1 + (n-1)d$$

Decompose a_n into terms

$$a_n = a_1 + (n-1)d$$

Geometric Sequence

On each step q is $\frac{a_n}{a_{n-1}}$

Arithmetic sequences are **linear**, geometric are **not** (the equation will be $a_n = a_1 \cdot q^{n-1}$)

$$\text{Example: } a_n = a_1 \cdot q^{n-1}$$

Decompose a_n into terms

$$a_n = a_1 \cdot q^{n-1}$$

Geometric Series

(sum of a series of numbers)

$$S_n = \frac{a_1(1-q^{n+1})}{1-q}$$

Probability

$P(A)$ = Probability of event A
 Superset (1% or greater)

$A \cup B$ Union OR

$A \cap B$ Intersection AND

$A \oplus B$ A Given B NOT

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A \cap B) = P(A) \cdot P(B) \text{ Independent}$$

$$P(A \cap B) < P(A) \cdot P(B) \text{ Dependent}$$

$$P(A \cap B) > P(A) \cdot P(B) \text{ Dependent}$$

$$P(A \cap B) = P(A) \cdot P(B) \text{ Independent}$$

Rolling Distributions

| | Roll 1 | Roll 2 | Sum |
|---------------|--------|--------|-----|
| Rolling 1,2,3 | 45 | 30 | 75 |
| Rolling 1,2,3 | 45 | 30 | 75 |
| Total | 45 | 30 | 75 |

Example: Roll 1 of 2 and Roll 2 of 2

$$P(A \cap B) = \frac{1}{4} = \frac{1}{2} \cdot \frac{1}{2}$$

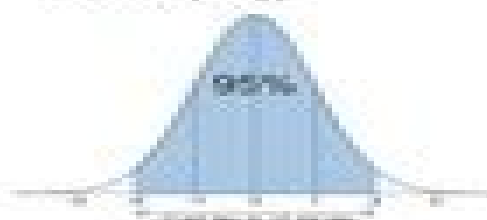
$$P(A \cap B) = P(A) \cdot P(B) \text{ or } P(A)$$

1% or 1% and 1% are dependent

Statistics

Normal Distribution (bell curve)

68% of data points are within 2 standard deviations (1.5 or 2) of the mean (1 or 2)



Standard Deviation (SD) = $\sqrt{\frac{(x_1 - \bar{x})^2 + (x_2 - \bar{x})^2 + \dots + (x_n - \bar{x})^2}{n}}$
 gives % of data points within a percentage

Regression (line of best fit)

The **STAT** menu **[X]** or **[Y]** and **[Z]** or **[W]** data then **EDIT** **[STAT]** or **[Z]** for exponential regression

TI-84 Functions & Tips

Factor constants for **STAT** menu **EDIT** **[STAT]** **[Z]** or **[W]**

Enter the different numbers
 positive **[+]** and negative **[-]**
 key

Use **[+]** **[+]** entered properly always
 entered correctly

$$a = \frac{b}{c} \quad b = a \cdot c \quad c = \frac{b}{a}$$

$$a = \frac{b}{c} \quad b = a \cdot c$$

$$a = \frac{b}{c} \quad b = a \cdot c$$

STAT **EDIT** **[STAT]** **[Z]** or **[W]**

Use **[+]** **[+]** entered properly

STAT **EDIT** **[STAT]** **[Z]** or **[W]**

Other Math keys (not over a number)
 equivalent **1/2** **[+]** **2** **[+]** **2** **[+]** **2**

Absolute value **[+]**

STAT **EDIT** **[STAT]** **[Z]** or **[W]**

Set base of logarithm

STAT **EDIT** **[STAT]** **[Z]** or **[W]**

[+] **[+]** **[+]**

[+] **[+]** **[+]**

[+] **[+]** **[+]**

Function & Formula & Graph

[STAT] **EDIT** **[STAT]** **[Z]** or **[W]**

2 **STAT** **EDIT** **[STAT]** **[Z]** or **[W]**

STAT **EDIT** **[STAT]** **[Z]** or **[W]**

STAT **EDIT** **[STAT]** **[Z]** or **[W]**

STAT **EDIT** **[STAT]** **[Z]** or **[W]**

Use **STAT** and **EDIT** to change
 graph window and table setup
STAT **EDIT** **[STAT]** **[Z]** or **[W]**

Regents Practice Test 1 Algebra 2 Trigonometry Answers

JR Anderson



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