

ALGEBRA II

Exponents

$\log_a a = \log_a \text{base } 2^0 = 0$

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

- a is the base ($a > 0$, $a \neq 1$)
- x is the exponent
- a is the coefficient of x ($a > 0$)

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

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

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

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

$$\log_a(x^y) = y \cdot \log_a(x)$$

Changing Log Base

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

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

On your **SCIENTIFIC**

Arithmetic Sequence

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

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

Decompose a_n into terms

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

Geometric Sequence

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

On each step $a_n = a_{n-1} \cdot q$ (multiply by q)

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

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

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

Geometric Series

(sum of a series of products)

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

Probability

$P(A)$ = Probability of event A

Supplement (1 - or opposite)

$A \cup B$ Union OR

$A \cap B$ Intersection AND

$A \oplus B$ Exclusive OR

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

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

$$P(A \cup B) = P(A) + P(B) \text{ Dependent}$$

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

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

Rolling Distributions

	Roll 1	Roll 2	Sum
Rolling 1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Rolling 1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Roll	1, 2, 3	1, 2, 3	1, 2, 3

Example: $P(A) = P(B) = P(C) = P(D)$

$$P(A \cup B) = P(A) + P(B) = 1/6 + 1/6 = 1/3$$

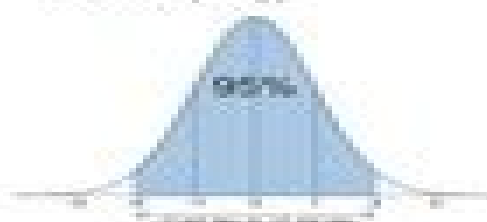
$$P(A \cap B) = P(A) \cdot P(B) = 1/6 \cdot 1/6 = 1/36$$

1/36 or 1/36 is the probability of getting a 1 and a 2.

Statistics

Normal Distribution (bell curve)

95% of data points are within 2 standard deviations (1.96 or 2) of the mean (μ or σ)



Standard Deviation (SD) = $\sqrt{\frac{\sum (x_i - \mu)^2}{n}}$

95% of data points within 2 standard deviations

Regression (line of best fit)

The **LINE** button (**Y=**) or **DATA** and **LINE**

or **STAT** and **LINE** (**Y=**)

Y= for exponential regression

TI-84 Functions & Tips

Factor constants for **FracDec** ratios
FracDec and **Dec**

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

Use **+** **-** instead of **+** **-** to
instead of **+** **-**

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

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

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

FracDec **FracDec** and **Dec** fractions

Use **FracDec** for fractions

FracDec **FracDec** for fractions

Other Math tools (add, subtract, multiply, divide)
exponents: **2^x** **2^x** **2^x**

Absolute value **|x|**

FracDec **FracDec**

Set base of logarithm

FracDec **FracDec** **FracDec**

FracDec **FracDec**

FracDec **FracDec**

FracDec **FracDec**

Function & Formula & Graph

FracDec **FracDec** and **FracDec**

2 **FracDec** **FracDec** **FracDec** **FracDec**

FracDec **FracDec**

FracDec **FracDec** **FracDec** **FracDec**

FracDec **FracDec** **FracDec** **FracDec**

Use **FracDec** and **FracDec** to change
graph window and table setup

FracDec **FracDec** **FracDec**

Algebra 2 Trigonometry Regents Exam 0610 Answers

Bruce Waldner, Meg Clemens



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