

### RELATIONS AND FUNCTIONS

RELATIONS one-to-one, many-to-one, one-to-many

VARIABLES x-independent, y-dependent

DOMAIN set of values of x

RANGE set of values of y

FUNCTION NOTATION  $f(x)=$ \_\_\_\_\_

FUNCTION no repetition in x

VERTICAL LINE TEST intersection = 1, is FUNCTION

FUNCTIONS OPERATIONS

COMPOSITE FUNCTIONS

INVERSE OF FUNCTION

### SIMULTANEOUS EQUATIONS

BY GRAPHING

BY SUBSTITUTION

BY ELIMINATION METHOD

### QUADRATIC FUNCTIONS

FORMS OF QUADRATICS FUNCTION

FACTORING QUADRATICS

INCOMPLETE QUADRATICS

SOLVING BY TAKING THE SQUARE ROOTS

QUADRATIC FORMULA

VERTEX OF PARABOLA

GRAPHING PARABOLAS

### EXPONENTIAL FUNCTIONS

PROPERTIES OF EXPONENTS

EXPONENTIAL EQUATIONS

### LOGARITHMIC FUNCTIONS

EXPONENTIAL TO LOGARITHMIC FORM

PROPERTIES OF LOGARITHMS

EXPAND AND CONDENSE

LOGARITHMIC EQUATIONS

### NATURAL LOGARITHMS

PROPERTIES OF NATURAL LOGARITHMS

SOLVING NATURAL LOGARITHMS

### SINE LAW

AAS

ASA

### COSINE LAW

SAS

SSS

### CIRCLE THEOREMS

ANGLES AT THE CENTRE AND AT THE CIRCUMFERENCE

ANGLE IN A SEMISCIRCLE

ANGLES IN THE SAME SEGMENT

ANGLES IN A CYCLIC QUADRILATERAL

LENGTHS OF TANGENT

ANGLE BETWEEN CIRCLE TANGENT AND RADIUS

ALTERNATE SEGMENT THEOREM

PERPENDICULAR FROM THE CENTER BISECTS THE CHORD

### THE AVERAGES

MEAN

MODE

MEDIAN

### DATA PRESENTATIONS

FREQUENCY POLYGON

HISTOGRAM

CUMULATIVE FREQUENCY

### OTHER FORMULAS

RANGE

LOWER QUARTILE

UPPER QUARTILE

INTERQUARTILE RANGE

VARIANCE

STANDARD DEVIATION

### PROBABILITY

SIMPLE PROBABILITY

CONDITIONAL

PROBABILITY TREE

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