TEMATY preDP2 i future HL

QUADRATICS

1 factorization
2 completing the square
3 solving equations
4 quadratic function general form & vertex form
5 quadratic function formulas on vertex, connections with the graph
6 quadratic function product form, conditions of existence
7 finding formula of quadratic function from given properties
8 graphing quadratic function and reading formula from the graph
9 solving equations and inequalities
10 application of quadratic function
11 modelling of quadratic function
12 optimization
13 parameters
14 Viete'a formulae and parameters
15 revision and test

TRIGONOMETRY

16 definition of ratios in right triangles
17 properties of triangles 45,45,90 and 60,30,90
18 applications of trig ratios angle of depression and angle of elevation
19 trig function of any angle
20 unit circle
21 radian measure
22 trig equations linear and quadratic
23 sector ,segment, arc,area of the triangle
24 connection the gradient of linear function with tangent
25 sine rule, ambiguous case
26 cosine rule
27 bearings
28 graphs of circular functions, period, amplitude, transformations
29 finding formula od trig function from the graph
30 revision and test

FUNCTIONS

31 domain, range, zeroes, y- intercept, 1-1 function
32 reciprocal, rational function (asymptotes, standard form, graphs)
33 absolute values (graphs, equations and inequalities)
34 composite functions
35 inverse functions (also to rational function and to part of quadratic function)
36 revision and test

revision to end of semester exam

exam P1 2h P2 2h

overtalking the exam

EXPONENTIAL AND LOGARITHMIC FUNCTIONS

37 rules of exponents
38 rules of logarithms
39 equations
40 exponential function graph, its transformations and properties
41 logarithmic function graph, transformations and properties
42 applications and simple inequalities

43 revision and test

SEQUENCIES, SERIES AND BINOMIAL THEOREM

44 recursive formula, n-th term rule
45 arithmetic sequence , nth term formula
46 sum of n-th terms of arithmetic sequence
47 geometric sequence n-th term formula
48 sum of n-th terms of geometric sequence
49 applications
50 finite sum of infinite sequence, geometric series
51 Pascal triangle, Binomial theorem
52 binomial coefficients
53 Binomial theorem exercises
54 revision and test

PROBABILITY

55 experimental probability
56 properties of teoretical probability
57 Venn diagram, grids as a method of finding probability
58 conditional probability
59 total probability
60 independent events
61 Bayes theorem

review to exam

exam P1 2h P2 2h

overtalking the exam

64 remainder theorem
65 equations and rational roots
66 inequalities
67 Viete'a formulae
68 equation of a circle
69 intersections lines and circles
70 tangent line to a circle
71 intersections of 2 circles
72 triangles inscribed and circumscribed
73 revision and test