

sheaf prism

A-LEVEL FURTHER MATHS KEY MATHEMATICAL VOCABULARY

	Core Pure 1								Core Pure 2						
Complex Numbers 1	Matrices	Complex Numbers Part 2	Series	Algebra & Functions	Proof	Vectors	Calculus	Complex Numbers	Hyperbolic Functions	Polar Coordinates	Further Algebra and Functions	Further Calculus			
Conjugate	Array	Conjugate	Sigma notation	Quadratic	Mathematical induction	Vector	Rotation	Conjugate	Hyperbolic	Polar	Series	Improper			
real part	dimension	real part	series	cubic	general statement	scalar	solid of revolution	real part	sinh	Cartesian	sigma	undefined			
imaginary part	rows	imaginary part	sum	quartic	basis	magnitude	volume of revolution	imaginary part	cosh	coordinates	differences	continuous			
complex conjugate	columns	complex conjugate	arithmetic series	polynomial	assumption	modulus	bounded area	complex conjugate	tanh	convert	sum	mean			
root	elements	root	geometric series	coefficient	inductive	direction	arc	nth root	domain	parallel	term	integrate			
discriminant	scalar	discriminant	binomial series	degree	conclusion	vector quantity	cubic units	distinct root	range	point	general term	partial			
Argand diagram	square matrices	Argand diagram	integer	root	integer	scalar quantity	parameter	discriminant	exponential	enclosed	partial fraction	fraction			
Cartesian coordinates	commutative	Cartesian coordinates	natural numbers	complex conjugate	summation	displacement vector	Cartesian equation	Argand diagram	function	area	function	radical			
vector	associative	vector		degree	divisible	zero vector		Cartesian coordinates	radical		Maclaurin	inverse			
magnitude	transformation	magnitude		Vieta's formulas	matrix	unit vector		vector			range				
modulus	rotation	modulus				base vector		magnitude			power				
argument	translation	argument				component		modulus				3			
principal argument	reflection	principal argument				equal vectors		argument							
radians	enlargement	radians				localised vector		principal argument							
modulus-argument form	linear transformation	modulus-argument form				free vector		radians							
polynomial	scale factor	polynomial				resultant		modulus-argument form							
coefficient	vector	coefficient				triangle law		polynomial							
quadratic	position vector	quadratic				parallelogram law		coefficient							
quartic	object	quartic				position vector		quadratic							
cubic	image	cubic				vector equation		quartic							
locus	identity	complex conjugate pair				Cartesian equation		cubic							
loci	determinant	locus				scalar product		de Moivre							
	inverse	loci.				dot product		unity							
	transpose					collinear		exponential							
	symmetric					skew		multiple angle							
	zero matrix minor					concurrent direction ratio									
	cofactor					perpendicular									
	singular					Pythagoras' Theorem									
	non-singular					i filiagoras meorem	1								
	three-dimensional														
	space														
	line														
	plane														
	parameter														
	vector equation														
	Cartesian equation														
	simultaneous														
	equations invariant point														
	invariant point														
		1													

			Decision 1			Decision 2							
Differential Equations	General Algorithms	Algorithms on Graphs	Route Inspection	Linear Programming	Critical Path Analysis	Allocation	Game Theory	Recurence Relations	Transportation	Flows	Dynamic Programmi		
Integrating factor	Algorithm	Minimum spanning tree	Traversable	Decision variables	Activities	Allocation	Two- person	Recurrence relation	Supply (points)	Capacitated directed networks/graphs or capacitated digraphs	Bellman's principle o optimality		
complementary	flow chart	Kruskal's algorithm	odd valency	constraints	events	assignment	zero-sum	iteration	demand (points)	capacity	stage		
function	size	Prim's algorithm	Eulerian	objective function	precedence table	cost matrix	pay-off matrix	first-order	source	source	state		
differential	order	network	Semi-Eulerian	slack variables	activity networks	row/column reduction	play safe	second-order	destination	sink	action		
equation	efficiency	distance matrix	minimum weight	Simplex method	source node	unbalanced problem	stable solution (saddle point)	linear	unit cost	flow	destination		
order	loops	Dijkstra's algorithm	upper bound	surplus variables	sink node	element	equilibrium	homogeneous	north-west corner method	feasibility condition	value		
auxiliary	bubble sort	working values	lower bound	artificial variables	dummies	Hungarian algorithm	mixed strategy	non-homogeneous	initial solution	conservation condition	minimax		
discriminant	iteration	final values	nearest neighbour algorithm	basic and non-basic variables	earliest event times	dummy location	value of the game	general solution	balanced problems	saturated	maximin		
general	quick sort	directed network	complete network	Simplex tableau	latest event times	incomplete data	dominance	particular solution	unbalanced problems	cut			
particular	pivot	source vertex	triangle inequality	feasible solution	critical path	minimisation (cost) allocation	Simplex	complementary function	dummy location	initial flow			
	mid-point	destination vertex	walk	feasible region	critical activities	maximisation (profit) allocation		auxiliary equation	degenerate solutions	labelling procedure			
	bin packing	distance table	tour	optimal solution	total float				shadow costs	flow-augmenting route			
	first-fit	sequence table		pivotal column	Gantt (cascade) chart				improvement indices	backflow			
	first-fit decreasing	Floyd's algorithm		pivotal row	resource histogram				stepping-stone method	maximum flow-minimum cut theorem			
	optimal solutions			pivot	scheduling				entering cell	supersource			
	vertices			optimality condition	lower bound				exiting cell	supersink			
	nodes			big-M					optimal solution				
	edges								decision variables				
	arcs	-							objective function				
	graph	-							constraints				
	network	-											
	path	-											
	cycle	4											
	Hamiltonian cycle	4											
	Eulerian graph	4											
	semi-Eulerian graph Eulerian cycle	4											
	subgraph												
	weighted graph	4											

connected graph simple graph degree valency digraph tree spanning tree k notation isomorphic planar



Decision Analysis
Decision tree
expected monetary
value (EMV)
chance node
decision node
end pay-off