Theory Jigsaw - possible entries

	Universality	Computability	Intractability
Big Idea	General purpose computer	Some problems are	Some problems
	Church-Turing Thesis	non-computable	take too long
Vocabulary	thesis	undecidable	search problem
	model of computation	unsolvable	P (efficient)
		paradox	NP
		proof by contradiction	NP-complete
			reduction
Practical	Same machine can be	No guaranteed	Take advantage of
Consequence	used for many jobs	virus detection	intractability
	Different machines can be		e.g., RSA encryption
	used for same job		
People	Alan Turing	Alan Turing	Dick Karp
	Turing Machine	Halting Problem	3SAT reduces to
		undecidable	a set of problems
	Alonzo Church	David Hilbert	Stephen Cook
	lambda calculus	all math solvable	Set of problems
		(wrong)	reduces to 3SAT
	Ada Lovelace	Kurt Godel	
	idea of general purpose	Incompleteness	
	computers	Theorem	

Church-Turing Thesis: Turing machines can do anything that can be described by a purely mechanical process. (i.e., TM as *powerful* as any other machine.)

Extended Church-Turing Thesis: P is the set of search problems solvable in poly-time in this universe (i.e., TM as *efficient* as any other machine.)