

Predicates	and Qualnti	fiers
Introduce Predic	at Logic	
Introduce Predict Predicate logic uses the	Following new fo	Eatures:
· Variables: X, y, Z · Predicates: Properties for	variables	
Quantitiers		
Prepesitional Lunctions,	denoted P(x),	O(x), are a ge-
reralization of propositions	d a) nedicate	
neralization of propositions. They contain variables on Voirioibles can be replaced.	by elements from	their domain
Propositional functions bee	one propositions	when their variables
eplaced by a value from Example: Let P(x) Ler	the demain	
s x and its predicate	is v >0 /ef	the domain be the
s x and its predicate htegers. Then: P(-9) is false	, P(O) is false;	P(3) is true
P(x, y, z) denote	12 + y = 2"	
P(x,y,z) denote R(z,-1,5) is felse; n se.	; R(3,4,7) is tr	eue : R(z, 3, 2/i)
	Expressions	
Connectives from propositions (epic.	al logic carry	over to predicate



