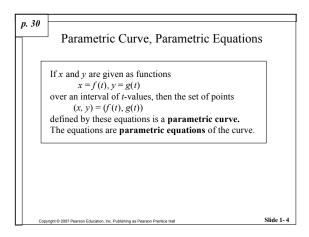
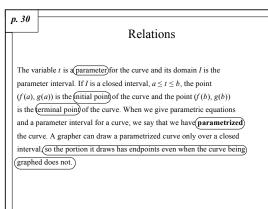


Slide	1-	2

p. 30 Relations	
• A relation is a set of ordered pairs (x, y) of real n	umbers.
• The graph of a relation is the set of points in a procorrespond to the ordered pairs of the relation.	plane that
• If x and y are functions of a third variable t, calle <i>parameter</i> , then we can use the <i>parametric mode</i> to obtain a graph of the relation.	
Copyright © 2007 Pearson Education, Inc. Publishing as Pearson Printice Hall	Slide 1- 3





ation, Inc. Publishing as Pearson Pre

opyright © 2007 Pearson Edu

Slide 1-5

Example Relations			
Describe the graph of the relation determined by $x = t$, $y = 1 - t^2$.			
		EXTENSION:	
		We can analyze this analytically by "removing the parameter". This process is where we solve for the parameter, then use substitution.	
		In the above problem, we would have $y = 1 - x^2$.	
L		Note that this has the same graph as the parametric equation!	
Conv	right © 2007 Pearson Education, Inc. Publishing as Pearson Prentice Hall	Slide 1- 6	

