AMAT 327(Z): Elementary Abstract Algebra, Sp	pring 2011 Quiz $\#$ 6, February 14
Name:	
For each of the following six questions, four possible answ write the corresponding letter in the box!	wers are provided, but only one of them is correct:
<ol> <li>Let f: X → Y be a function. Let x and x' be elements What do we need to know about f to conclude that f(A] Nothing: this is true for all functions f.</li> <li>B] We need f to be injective.</li> <li>C] We need f to be surjective.</li> <li>D] We need f to be bijective.</li> </ol>	
<ul> <li>2] Let f: X → Y be a function. Let x and x' be elements What do we need to know about f to conclude that x = A] Nothing: this is true for all functions f.</li> <li>B] We need f to be injective.</li> <li>C] We need f to be surjective.</li> <li>D] We need f to be bijective.</li> </ul>	
<ul> <li>3] Let f: X → Y be a function. Let x and x' be elements What do we need to know about f to conclude that x = A] Nothing: this is true for all functions f.</li> <li>B] We need f to be injective.</li> <li>C] We need f to be surjective.</li> <li>D] We need f to be bijective.</li> </ul>	
<ul> <li>4] Let f: X → Y be a function. Let y be an element of Y. What do we need to know about f to conclude that y = A] Nothing: this is true for all functions f.</li> <li>B] We need f to be injective.</li> <li>C] We need f to be surjective.</li> <li>D] We need f to be bijective.</li> </ul>	
<ul> <li>5] Let f: X → Y be a function. Let y be an element of Y What do we need to know about f to conclude that y = A] Nothing: this is true for all functions f.</li> <li>B] We need f to be injective.</li> <li>C] We need f to be surjective.</li> <li>D] We need f to be bijective.</li> </ul>	
<ul> <li>6] Let f: X → Y be a function. Let x be an element of X. What do we need to know about f to conclude that f(A] Nothing: this is true for all functions f.</li> <li>B] We need f to be injective.</li> <li>C] We need f to be surjective.</li> <li>D] We need f to be bijective.</li> </ul>	