

<u>Course</u> > <u>Topic 2: Sets</u> > <u>Problem Set 2</u> > Problem Set 2

## **Problem Set 2**

1

2.0/2.0 points (graded)
Which of the following hold?

- $\square \{0\} = \emptyset$
- $(0,1,2) = \{2,0,1,1\}$
- $\ \, \square \,\, \{\{0\},1\} = \{0,\{1\}\}$



Submit

You have used 1 of 2 attempts

2

5.0/5.0 points (graded)

For any two sets A and B, add  $\subseteq$  or  $\supseteq$  to make the following statements true.

Hint: Venn Diagrams may help.

•	$A\cap B$	$\boldsymbol{A}$





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• 
$$A-B$$
 A

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## • $A \cap B$ $A \cup B$

⊆ 💠 🗸

• 
$$A-B$$
  $A\Delta B$ 

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Submit

You have used 1 of 1 attempt

3

1.0/1.0 point (graded)

Which of the following statements hold for all A?

$\ \ \ A\subseteq A^2$	
$\ \ \ A \in A^2$	
$\ \ \ A  imes A^c = \emptyset$	
Submit You have used 1 of 3 attempts	
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<ul> <li>please clarify question # 4: Which of the following hold for a non-empty set A?         There are 5 options. On the left side in each of the options, we have {subsets of A}. What exactly does that mean? The question is a bit confusion strict or proper subset?     </li> <li>strict or proper subset?         is there any difference between strict &amp; proper subset?     </li> <li>Question 5</li> </ul>	by recent activity 4 ng. Can you pleas  2 e uses an empty s