

<u>Course</u> > <u>Week</u>... > <u>2.9 P</u>... > Probl...

Problem Set 2

1

1.0/1.0 point (graded)

Which of the following are true?

$$\blacksquare \{0\} = \emptyset$$

$$\ \ \blacksquare \ \{\{0\},1\}=\{0,\{1\}\}$$



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You have used 2 of 2 attempts

2

0/1 point (graded)

Which of the following set pairs intersect?

fprime numbers and {even numbers}

 $\{x\in\mathbb{R}\mid x^2\leq 4\}$ and [2,7) \emptyset and \emptyset $\{\emptyset,1,2\}$ and \emptyset

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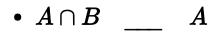
You have used 3 of 3 attempts

3

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.



⊆ ▼ ✓

ullet $A \cup B$ A

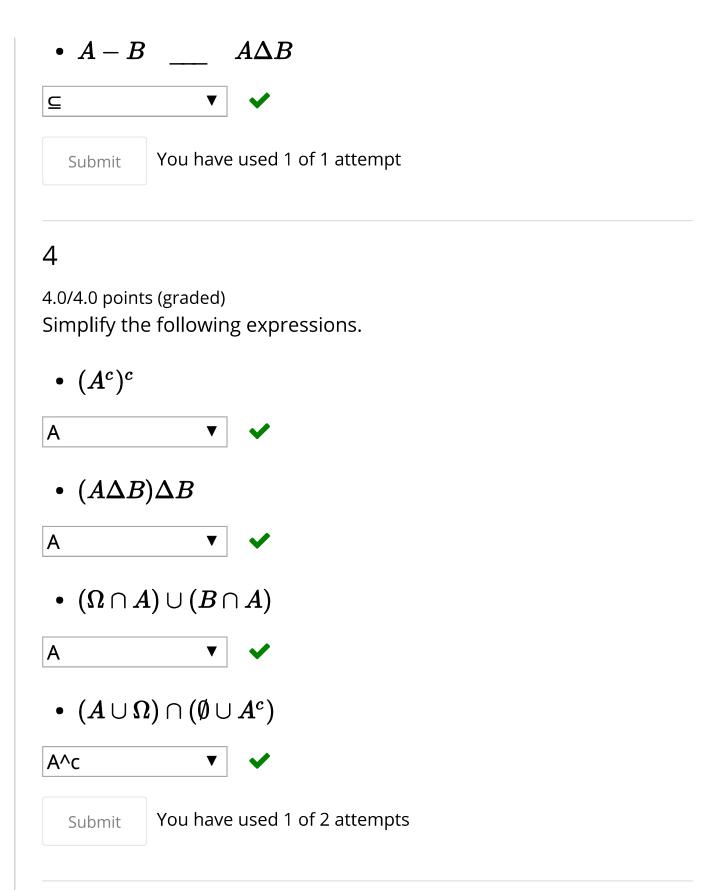
⊇ ▼ ✓

• A – B ___ A

⊆ ▼ ✓

• $A \cap B$ ___ $A \cup B$

⊆ ▼ ✓



5

1/1 point (graded)

Which of the following statements hold for all A?

| * | A | × | Ø | = | 0 |
|----------|------------------------|----------|---|---|---|
| () | $\boldsymbol{\Lambda}$ | \wedge | W | _ | W |

$$\square A \times \emptyset = A$$

$$\ \square \ A\subseteq A^2$$

$$\ \ \square \ A \in A^2$$

$$lacksquare A imes A^c = \emptyset$$



Submit

You have used 3 of 3 attempts

✓ Correct (1/1 point)

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