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| The name of the exam 22nd July 2014 | Prof. | Student's signature |
| Last Name: | First Name: | Student's ID: |

INSTRUCTIONS

- Write here your instructions
- two
- three

Part One

1. (1 point) exercise 4d $a = 3, b = 2, c = 5$

- (a) answer 4 wrong
- (b) answer 2 wrong
- ▶ (c) answer 1 correct
- (d) answer 3 wrong
- (e) answer 5 wrong

2. (1 point) exercise 1a $a = 2$

- (a) answer 3 wrong
- (b) answer 2 wrong
- ▶ (c) answer 1 correct

3. (1 point) exercise 14a $a = 2, b = 2, c = 3$

- ▶ (a) answer 1 correct
- (b) answer 4 wrong
- (c) answer 5 wrong
- (d) answer 2 wrong
- (e) answer 3 wrong

4. (2 points) exercise 9d $a = 4, b = 3, c = 2$

- (a) answer 2 wrong
- ▶ (b) answer 1 correct
- (c) answer 5 wrong
- (d) answer 3 wrong
- (e) answer 4 wrong

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| 8 points |
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Some other questions

1. (1 point) exercise 12a $a = 3, b = 3, c = 4$

- ▶ (a) answer 1 correct
- (b) answer 2 wrong
- (c) answer 3 wrong
- (d) answer 4 wrong
- (e) answer 5 wrong

2. (2 points) exercise 13b $a = 5, b = 3, c = 6$

- (a) answer 3 wrong
- (b) answer 4 wrong
- (c) answer 2 wrong
- (d) answer 5 wrong
- ▶ (e) answer 1 correct

Part two

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| Some other instructions. |
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EXERCISE 1. Let $A = \{a, b, c\}$ and $B = \{a, c, x\}$.

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| 4 points |
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(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{a, b, c, x\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{a, c\}$$

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Part One

1. (1 point) exercise 1b $a = 3$

(a) answer 2 wrong

(b) answer 3 wrong

▶ (c) answer 1 correct

2. (1 point) exercise 4b $a = 5, b = 2, c = 2$

(a) answer 3 wrong

▶ (b) answer 1 correct

(c) answer 4 wrong

(d) answer 5 wrong

(e) answer 2 wrong

3. (2 points) exercise 9b $a = 3, b = 5, c = 6$

▶ (a) answer 1 correct

(b) answer 3 wrong

(c) answer 2 wrong

(d) answer 5 wrong

(e) answer 4 wrong

4. (1 point) exercise 14e $a = 4, b = 2, c = 8$

(a) answer 3 wrong

▶ (b) answer 1 correct

(c) answer 4 wrong

(d) answer 2 wrong

(e) answer 5 wrong

8 points

Some other questions

1. (2 points) exercise 13c $a = 4, b = 5, c = 4$

(a) answer 2 wrong

(b) answer 3 wrong

(c) answer 4 wrong

▶ (d) answer 1 correct

(e) answer 5 wrong

2. (1 point) exercise 12b $a = 4, b = 2, c = 7$

(a) answer 2 wrong

▶ (b) answer 1 correct

(c) answer 3 wrong

(d) answer 5 wrong

(e) answer 4 wrong

Part two

Some other instructions.

EXERCISE 1. Let $A = \{b, c, x\}$ and $B = \{b, x, y\}$.

4 points

(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{b, c, x, y\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{b, x\}$$

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Part One

1. (1 point) exercise 14a $a = 2, b = 2, c = 2$

- (a) answer 4 wrong
- ▶ (b) answer 1 correct
- (c) answer 3 wrong
- (d) answer 5 wrong
- (e) answer 2 wrong

2. (2 points) exercise 9c $a = 2, b = 5, c = 6$

- ▶ (a) answer 1 correct
- (b) answer 5 wrong
- (c) answer 3 wrong
- (d) answer 2 wrong
- (e) answer 4 wrong

3. (1 point) exercise 1a $a = 4$

- ▶ (a) answer 1 correct
- (b) answer 2 wrong
- (c) answer 3 wrong

4. (1 point) exercise 4c $a = 4, b = 4, c = 5$

- (a) answer 3 wrong
- (b) answer 2 wrong
- ▶ (c) answer 1 correct
- (d) answer 4 wrong
- (e) answer 5 wrong

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| 8 points |
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Some other questions

1. (1 point) exercise 12a $a = 2, b = 4, c = 2$

- (a) answer 3 wrong
- (b) answer 4 wrong
- (c) answer 5 wrong
- ▶ (d) answer 1 correct
- (e) answer 2 wrong

2. (2 points) exercise 13c $a = 5, b = 4, c = 5$

- ▶ (a) answer 1 correct
- (b) answer 4 wrong
- (c) answer 5 wrong
- (d) answer 2 wrong
- (e) answer 3 wrong

Part two

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| Some other instructions. |
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EXERCISE 1. Let $A = \{c, x, y\}$ and $B = \{c, y, z\}$.

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| 4 points |
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(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{c, x, y, z\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{c, y\}$$

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Part One

1. (1 point) exercise 4a $a = 5, b = 3, c = 3$

- (a) answer 4 wrong
- (b) answer 3 wrong
- (c) answer 5 wrong
- ▶ (d) answer 1 correct
- (e) answer 2 wrong

2. (1 point) exercise 14d $a = 2, b = 5, c = 5$

- (a) answer 4 wrong
- ▶ (b) answer 1 correct
- (c) answer 5 wrong
- (d) answer 2 wrong
- (e) answer 3 wrong

3. (1 point) exercise 1b $a = 2$

- ▶ (a) answer 1 correct
- (b) answer 3 wrong
- (c) answer 2 wrong

4. (2 points) exercise 9c $a = 2, b = 3, c = 8$

- (a) answer 4 wrong
- (b) answer 3 wrong
- (c) answer 5 wrong
- ▶ (d) answer 1 correct
- (e) answer 2 wrong

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| 8 points |
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Some other questions

1. (2 points) exercise 13b $a = 3, b = 3, c = 2$

- (a) answer 4 wrong
- (b) answer 3 wrong
- (c) answer 5 wrong
- (d) answer 2 wrong
- ▶ (e) answer 1 correct

2. (1 point) exercise 12c $a = 4, b = 4, c = 6$

- (a) answer 5 wrong
- (b) answer 2 wrong
- (c) answer 3 wrong
- ▶ (d) answer 1 correct
- (e) answer 4 wrong

Part two

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| Some other instructions. |
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EXERCISE 1. Let $A = \{a, b, c\}$ and $B = \{a, c, x\}$.

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| 4 points |
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(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{a, b, c, x\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{a, c\}$$

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Part One

1. (1 point) exercise 1a $a = 4$

- (a) answer 2 wrong
- (b) answer 3 wrong

▶ (c) answer 1 correct

2. (2 points) exercise 9b $a = 2, b = 5, c = 8$

- (a) answer 4 wrong
- (b) answer 5 wrong
- (c) answer 2 wrong

▶ (d) answer 1 correct
(e) answer 3 wrong

3. (1 point) exercise 4c $a = 5, b = 2, c = 5$

- (a) answer 2 wrong
- (b) answer 5 wrong
- (c) answer 3 wrong
- (d) answer 4 wrong

▶ (e) answer 1 correct

4. (1 point) exercise 14b $a = 3, b = 5, c = 5$

- (a) answer 4 wrong
- (b) answer 3 wrong

▶ (c) answer 1 correct
(d) answer 2 wrong
(e) answer 5 wrong

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| 8 points |
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Some other questions

1. (1 point) exercise 12a $a = 3, b = 3, c = 4$

- (a) answer 4 wrong
- (b) answer 5 wrong

▶ (c) answer 1 correct
(d) answer 3 wrong
(e) answer 2 wrong

2. (2 points) exercise 13a $a = 3, b = 3, c = 5$

- (a) answer 4 wrong
- (b) answer 5 wrong
- (c) answer 3 wrong
- (d) answer 2 wrong

▶ (e) answer 1 correct

Part two

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EXERCISE 1. Let $A = \{a, b, c\}$ and $B = \{a, c, x\}$.

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| 4 points |
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(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{a, b, c, x\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{a, c\}$$

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Part One

1. (1 point) exercise 1b $a = 4$

(a) answer 2 wrong

▶ (b) answer 1 correct

(c) answer 3 wrong

2. (1 point) exercise 14c $a = 3, b = 5, c = 3$

▶ (a) answer 1 correct

(b) answer 3 wrong

(c) answer 2 wrong

(d) answer 4 wrong

(e) answer 5 wrong

3. (2 points) exercise 9a $a = 5, b = 3, c = 7$

(a) answer 2 wrong

(b) answer 4 wrong

(c) answer 3 wrong

▶ (d) answer 1 correct

(e) answer 5 wrong

4. (1 point) exercise 4e $a = 2, b = 2, c = 8$

(a) answer 5 wrong

(b) answer 4 wrong

(c) answer 3 wrong

▶ (d) answer 1 correct

(e) answer 2 wrong

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| |
| 8 points |

Some other questions

1. (2 points) exercise 13d $a = 3, b = 3, c = 5$

(a) answer 5 wrong

▶ (b) answer 1 correct

(c) answer 3 wrong

(d) answer 4 wrong

(e) answer 2 wrong

2. (1 point) exercise 12c $a = 4, b = 2, c = 6$

(a) answer 3 wrong

(b) answer 2 wrong

(c) answer 4 wrong

(d) answer 5 wrong

▶ (e) answer 1 correct

Part two

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| Some other instructions. |
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EXERCISE 1. Let $A = \{a, x, y\}$ and $B = \{a, y, z\}$.

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| |
| 4 points |

(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{a, x, y, z\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{a, y\}$$

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Part One

1. (2 points) exercise 9d $a = 5, b = 3, c = 6$

- (a) answer 4 wrong
- (b) answer 5 wrong
- (c) answer 2 wrong
- ▶ (d) answer 1 correct
- (e) answer 3 wrong

2. (1 point) exercise 4d $a = 2, b = 4, c = 3$

- (a) answer 4 wrong
- (b) answer 3 wrong
- (c) answer 5 wrong
- ▶ (d) answer 1 correct
- (e) answer 2 wrong

3. (1 point) exercise 1a $a = 3$

- (a) answer 3 wrong
- (b) answer 2 wrong
- ▶ (c) answer 1 correct

4. (1 point) exercise 14a $a = 5, b = 5, c = 7$

- (a) answer 5 wrong
- ▶ (b) answer 1 correct
- (c) answer 3 wrong
- (d) answer 2 wrong
- (e) answer 4 wrong

| |
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| 8 points |
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Some other questions

1. (1 point) exercise 12b $a = 2, b = 4, c = 3$

- ▶ (a) answer 1 correct
- (b) answer 3 wrong
- (c) answer 5 wrong
- (d) answer 4 wrong
- (e) answer 2 wrong

2. (2 points) exercise 13b $a = 5, b = 4, c = 3$

- (a) answer 2 wrong
- (b) answer 5 wrong
- ▶ (c) answer 1 correct
- (d) answer 3 wrong
- (e) answer 4 wrong

Part two

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EXERCISE 1. Let $A = \{a, b, c\}$ and $B = \{a, c, z\}$.

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|----------|
| 4 points |
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(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{a, b, c, z\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{a, c\}$$

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Part One

1. (1 point) exercise 1b $a = 4$

- (a) answer 2 wrong
- ▶ (b) answer 1 correct
- (c) answer 3 wrong

2. (2 points) exercise 9b $a = 3, b = 3, c = 2$

- (a) answer 5 wrong
- (b) answer 3 wrong
- (c) answer 2 wrong
- (d) answer 4 wrong
- ▶ (e) answer 1 correct

3. (1 point) exercise 14c $a = 3, b = 3, c = 5$

- (a) answer 2 wrong
- ▶ (b) answer 1 correct
- (c) answer 5 wrong
- (d) answer 3 wrong
- (e) answer 4 wrong

4. (1 point) exercise 4b $a = 4, b = 5, c = 7$

- ▶ (a) answer 1 correct
- (b) answer 2 wrong
- (c) answer 3 wrong
- (d) answer 4 wrong
- (e) answer 5 wrong

| |
|----------|
| 8 points |
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Some other questions

1. (2 points) exercise 13c $a = 3, b = 2, c = 6$

- (a) answer 2 wrong
- (b) answer 4 wrong
- (c) answer 5 wrong
- (d) answer 3 wrong
- ▶ (e) answer 1 correct

2. (1 point) exercise 12c $a = 4, b = 4, c = 5$

- ▶ (a) answer 1 correct
- (b) answer 3 wrong
- (c) answer 5 wrong
- (d) answer 4 wrong
- (e) answer 2 wrong

Part two

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|--------------------------|
| Some other instructions. |
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EXERCISE 1. Let $A = \{a, b, x\}$ and $B = \{a, x, z\}$.

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|----------|
| 4 points |
|----------|

(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{a, b, x, z\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{a, x\}$$

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Part One

1. (1 point) exercise 14e $a = 4, b = 4, c = 4$

- (a) answer 4 wrong
- (b) answer 3 wrong
- ▶ (c) answer 1 correct
- (d) answer 2 wrong
- (e) answer 5 wrong

2. (1 point) exercise 4c $a = 2, b = 3, c = 3$

- ▶ (a) answer 1 correct
- (b) answer 5 wrong
- (c) answer 4 wrong
- (d) answer 2 wrong
- (e) answer 3 wrong

3. (1 point) exercise 1a $a = 5$

- ▶ (a) answer 1 correct
- (b) answer 3 wrong
- (c) answer 2 wrong

4. (2 points) exercise 9c $a = 5, b = 4, c = 2$

- (a) answer 2 wrong
- (b) answer 3 wrong
- (c) answer 4 wrong
- ▶ (d) answer 1 correct
- (e) answer 5 wrong

| |
|----------|
| 8 points |
|----------|

Some other questions

1. (1 point) exercise 12a $a = 4, b = 4, c = 6$

- (a) answer 2 wrong
- (b) answer 4 wrong
- ▶ (c) answer 1 correct
- (d) answer 5 wrong
- (e) answer 3 wrong

2. (2 points) exercise 13d $a = 5, b = 2, c = 6$

- (a) answer 5 wrong
- (b) answer 4 wrong
- ▶ (c) answer 1 correct
- (d) answer 3 wrong
- (e) answer 2 wrong

Part two

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|--------------------------|
| Some other instructions. |
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EXERCISE 1. Let $A = \{b, c, x\}$ and $B = \{b, x, z\}$.

| |
|----------|
| 4 points |
|----------|

(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{b, c, x, z\}$$

(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{b, x\}$$

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Part One

1. (2 points) exercise 9d $a = 5, b = 5, c = 8$

- (a) answer 4 wrong
- (b) answer 5 wrong
- (c) answer 2 wrong
- (d) answer 3 wrong
- ▶ (e) answer 1 correct

2. (1 point) exercise 14d $a = 5, b = 2, c = 2$

- (a) answer 4 wrong
- (b) answer 5 wrong
- (c) answer 3 wrong
- ▶ (d) answer 1 correct
- (e) answer 2 wrong

3. (1 point) exercise 4d $a = 4, b = 2, c = 6$

- (a) answer 2 wrong
- (b) answer 3 wrong
- (c) answer 5 wrong
- ▶ (d) answer 1 correct
- (e) answer 4 wrong

4. (1 point) exercise 1b $a = 4$

- ▶ (a) answer 1 correct
- (b) answer 2 wrong
- (c) answer 3 wrong

Some other questions

1. (2 points) exercise 13a $a = 4, b = 5, c = 3$

- (a) answer 3 wrong
- (b) answer 5 wrong
- (c) answer 2 wrong
- (d) answer 4 wrong
- ▶ (e) answer 1 correct

2. (1 point) exercise 12b $a = 5, b = 2, c = 2$

- (a) answer 4 wrong
- (b) answer 2 wrong
- (c) answer 5 wrong
- ▶ (d) answer 1 correct
- (e) answer 3 wrong

| |
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| 8 points |
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Part two

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|--------------------------|
| Some other instructions. |
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EXERCISE 1. Let $A = \{a, b, x\}$ and $B = \{a, x, z\}$.

(a) (2 points) List (without repetition) the elements of the set $A \cup B$

Solution:

$$A \cup B = \{a, b, x, z\}$$

| |
|----------|
| 4 points |
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(b) (2 points) List (without repetition) the elements of the set $A \cap B$

Solution:

$$A \cap B = \{a, x\}$$

Solution Version n. 1

1. c
2. c
3. a
4. b

1. a
2. e

Solution Version n. 2

1. c
2. b
3. a
4. b

1. d
2. b

Solution Version n. 3

1. b
2. a
3. a
4. c

1. d
2. a

Solution Version n. 4

1. d
2. b
3. a
4. d

1. e
2. d

Solution Version n. 5

1. c
2. d
3. e
4. c

1. c
2. e

Solution Version n. 6

1. b
2. a
3. d
4. d

1. b
2. e

Solution Version n. 7

1. d
2. d
3. c
4. b

1. a
2. c

Solution Version n. 8

1. b
2. e
3. b
4. a

1. e
2. a

Solution Version n. 9

1. c
2. a
3. a
4. d

1. c
2. c

Solution Version n. 10

1. e

2. d

3. d

4. a

1. e

2. d