

The name of the exam 22 luglio 2014	Prof.	Firma leggibile dello studente
Cognome:	Nome:	Matricola:

INSTRUCTIONS

- Write here your instructions
- two è con accento
- three è à é ò ù

Part One

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

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

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

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

3. (2 punti) exercise 3d $a = 2, b = 2, c = 3$

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

Soluzione: answer 1

4. (2 punti) exercise 3b $a = 3, b = 2, c = 7$

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

Soluzione: answer 1

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

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

6. (1 punto) $a = 14, b = 14, c = 2, k = 5$
Evaluate with two exact decimals

$$14 : 5 = \boxed{2,8}$$

7. (1 punto) Se tiene la ecuación

$$\frac{h^2 p}{u} = \sqrt{n+1} - 4$$

despeje p

$$p = \boxed{h}$$

$$p = \boxed{6}$$

18 punti

8. (1 punto) exercise 1a $a = 3$

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

9. (1 punto) exercise 4a $a = 5, b = 2, c = 6$

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

10. (2 punti) exercise 9d $a = 5, b = 3, c = 8$

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

11. (1 punto) exercise 14e $a = 5, b = 4, c = 5$

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

Soluzione: This is the solution $a = 5, b = 4, c = 5$

12. (1 punto) exercise 11a

$\{c, x, y\}$

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

13. (1 punto) exercise 11b

$\{a, b, c\}$

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

Some other questions

Part two

Some other instructions.

ESERCIZIO 1.

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

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

Soluzione:

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

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

Soluzione:

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

4 punti

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Part One

1. (1 punto) exercise 2b $a = 3, b = 4, c = 7$

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

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

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

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

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

Soluzione: answer 1

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

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

Soluzione: answer 1

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

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

6. (1 punto) exercise 4d $a = 2, b = 3, c = 7$

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

18 punti

7. (1 punto) exercise 14a $a = 4, b = 2, c = 6$

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

Soluzione: This is the solution $a = 4, b = 2, c = 6$

8. (1 punto) $a = 12, b = 13, c = 2, k = 5$

Evaluate with two exact decimals

$$12 : 2 = \boxed{6}$$

9. (1 punto) exercise 1b $a = 5$

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

10. (1 punto) Se tiene la ecuación

$$\frac{m^2k}{n} = \sqrt{y+1} - 1$$

despeje k

$$k = \boxed{m}$$

$$k = \boxed{6}$$

11. (2 punti) exercise 9b $a = 5, b = 5, c = 8$

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

12. (1 punto) exercise 11a

$\{a, c, x\}$

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

13. (1 punto) exercise 11b

$\{a, b, x\}$

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

Some other questions

Part two

Some other instructions.

ESERCIZIO 1.

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

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

Soluzione:

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

4 punti

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

Soluzione:

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

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Part One

1. (1 punto) exercise 2c $a = 5, b = 5, c = 8$

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

2. (1 punto) exercise 2a $a = 3, b = 2, c = 7$

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

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

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

Soluzione: answer 1

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

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

Soluzione: answer 1

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

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

6. (1 punto) exercise 1a $a = 7$

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

7. (2 punti) exercise 9c $a = 4, b = 3, c = 3$

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

18 punti

8. (1 punto) exercise 14d $a = 5, b = 5, c = 8$

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

Soluzione: This is the solution $a = 5, b = 5, c = 8$

9. (1 punto) $a = 15, b = 13, c = 4, k = 5$

Evaluate with two exact decimals

$$13 : 5 =$$

2,6

10. (1 punto) exercise 4b $a = 5, b = 5, c = 8$

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

11. (1 punto) Se tiene la ecuación

$$\frac{v^2 r}{b} = \sqrt{p+1} - 3$$

despeje r

$$r =$$

v

$$r =$$

6

12. (1 punto) exercise 11a

$\{a, b, y\}$

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

13. (1 punto) exercise 11b

$\{a, x, y\}$

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

Some other questions

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Some other instructions.

ESERCIZIO 1.

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

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

Soluzione:

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

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

Soluzione:

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

4 punti

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Part One

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

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

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

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

Soluzione: answer 1

3. (1 punto) exercise 2b $a = 2, b = 2, c = 8$

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

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

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

Soluzione: answer 1

5. (1 punto) exercise 2c $a = 5, b = 3, c = 8$

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

6. (1 punto) exercise 14b $a = 4, b = 3, c = 3$

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

Soluzione: This is the solution $a = 4, b = 3, c = 3$

7. (1 punto) exercise 1b $a = 2$

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

18 punti

8. (2 punti) exercise 9c $a = 3, b = 4, c = 6$

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

9. (1 punto) Se tiene la ecuación

$$\frac{w^2 r}{v} = \sqrt{a+1} - 4$$

despeje r

$$r = \boxed{w}$$

$$r = \boxed{6}$$

10. (1 punto) $a = 14, b = 15, c = 2, k = 4$

Evaluate with two exact decimals

$$14 : 2 = \boxed{7}$$

11. (1 punto) exercise 4c $a = 2, b = 4, c = 2$

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

12. (1 punto) exercise 11a

$\{a, x, z\}$

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

13. (1 punto) exercise 11b

$\{b, c, x\}$

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

Some other questions

Part two

Some other instructions.

ESERCIZIO 1.

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

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

Soluzione:

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

4 punti

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

Soluzione:

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

Soluzione Versione n. 1

1. c
2. c
3. a
4. a
5. e
6. 2,8
7. a
8. 6
9. a
10. e
11. d
12. b
13. a
14. c

Soluzione Versione n. 2

1. c
2. d
3. c
4. d
5. c
6. c
7. a
8. 6
9. b
10. h
11. 6
12. b
13. c
14. b

Soluzione Versione n. 3

1. c
2. c
3. a
4. e
5. a
6. a
7. c
8. b
9. 2,6
10. c
11. e
12. 6
13. c
14. b

Soluzione Versione n. 4

1. c
2. a
3. d
4. e
5. b
6. e
7. b
8. c
9. a
10. 6
11. 7
12. e
13. a
14. b