

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

18 punti

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

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

6. (1 punto) $a = 14, b = 14, c = 2, k = 5$

Evaluate with two exact decimals

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

despeje p

$$p = \boxed{\textcolor{red}{h}}$$

$$p = \boxed{\textcolor{red}{6}}$$

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:

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

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 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

18 punti

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

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

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

despeje k

$$k = \boxed{\textcolor{red}{m}}$$

$$k = \boxed{\textcolor{red}{6}}$$

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

18 punti

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

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

$$13 : 5 = \boxed{2,6}$$

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

$$r = \boxed{\textcolor{red}{v}}$$

$$r = \boxed{\textcolor{red}{6}}$$

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

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:

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

$$\boxed{4 \text{ punti}}$$

(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 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

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18 punti

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

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

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

despeje r

$$r = \boxed{\text{w}}$$

$$r = \boxed{6}$$

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:

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

$$\boxed{4 \text{ punti}}$$

(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