The name of the exam 22 gennaio 2022	Prof.	Firma leggibile dello studente
Cognome:	Nome:	Matricola:

- Write here your instructions
- two
- three

Part One

- SOME EXERCISES FROM 2 FILES **1.** (1 punto) exercise 2a a = 4, b = 2, c = 7
 - (a) answer 5 wrong
 - (b) answer 4 wrong
 - (c) answer 2 wrong
 - (d) answer 3 wrong
 - (e) answer 1 correct
 - **2.** (2 punti) exercise 3b a = 2, b = 3, c = 6
 - (a) answer 2 wrong
 - (b) answer 4 wrong
 - (c) answer 1 correct
 - (d) answer 5 wrong
 - (e) answer 3 wrong
 - **3.** (1 punto) exercise 2b a = 3, b = 3, c = 5
 - (a) answer 2 wrong
 - (b) answer 4 wrong
 - (c) answer 5 wrong
 - (d) answer 3 wrong
 - (e) answer 1 correct

- 4. (1 punto) exercise 2c a = 3, b = 5, c = 6
 - (a) answer 1 correct
 - (b) answer 4 wrong
 - (c) answer 2 wrong
 - (d) answer 5 wrong
 - (e) answer 3 wrong
- **5.** (2 punti) exercise 3a = 5, b = 3, c = 3
 - (a) answer 1 correct
 - (b) answer 5 wrong
 - (c) answer 4 wrong
 - (d) answer 2 wrong
 - (e) answer 3 wrong
- **6.** (1 punto) exercise 1a a = 7
 - (a) answer 3 wrong
 - (b) answer 2 wrong
 - (c) answer 1 correct
- **7.** (2 punti) exercise 9b a = 3, b = 5, c = 3
 - (a) answer 3 wrong
 - (b) answer 1 correct
 - (c) answer 2 wrong
 - (d) answer 4 wrong
 - (e) answer 5 wrong

- 8. (1 punto) exercise 14a a = 3, b = 5, c = 5alphai = 11 alphaii = 5
 - (a) answer 5 wrong
 - (b) answer 3 wrong
 - (c) answer 2 wrong
 - (d) answer 1 correct
 - (e) answer 4 wrong
- **9.** (1 punto) exercise 4e a = 2, b = 5, c = 7
 - (a) answer 2 wrong
 - (b) answer 4 wrong
 - (c) answer 5 wrong
 - (d) answer 3 wrong
 - (e) answer 1 correct
- **10.** (1 punto) a = 15, b = 15, c = 3, k = 5Evaluate with two exact decimals



ALL THE PROBLEMS OF A FILE **11.** (1 punto) exercise 11a

 $\{b, c, y\}$

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

- (c) answer 2 wrong
- **12.** (1 punto) exercise 11b

 $\{a, b, c\}$

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

Some other questions

- 1. (1 punto) exercise 12
a $a=3,\,b=5,\,c=6$
 - (a) answer 1 correct
 - (b) answer 4 wrong
 - (c) answer 3 wrong
 - (d) answer 2 wrong
 - (e) answer 5 wrong
- **2.** (2 punti) exercise 13b a = 4, b = 4, c = 6
 - (a) answer 2 wrong
 - (b) answer 3 wrong
 - (c) answer 4 wrong
 - (d) answer 5 wrong
 - (e) answer 1 correct

ESERCIZIO 1. Let $A = \{a, b, c\}$ and $B = \{a, c, x\}$. (a) (2 punti) List (without repetition) the elements of the set $A \cup B$ $A \cup B =$

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

ESERCI: a = 5, b =	ZIO 2. = 4, $c = 6$		
	5×4	(A) 20	3 punti
	5 + 4	(B) 1	
	6 - 5	(C) 9	

ESERCIZIO 3. Solve the following equations:

Equation	
$x^2 + 7x + 10 = 0$	
$x^2 - 7x + 10 = 0$	
$x^2 + 3x - 10 = 0$	
$x^2 - 3x - 10 = 0$	

4	punti

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Part One

- SOME EXERCISES FROM 2 FILES **1.** (1 punto) exercise 2c a = 2, b = 2, c = 5
 - (a) answer 5 wrong
 - (b) answer 4 wrong
 - (c) answer 3 wrong
 - (d) answer 1 correct
 - (e) answer 2 wrong
 - 2. (2 punti) exercise 3
a $a=2,\,b=2,\,c=3$
 - (a) answer 1 correct
 - (b) answer 4 wrong
 - (c) answer 5 wrong
 - (d) answer 2 wrong
 - (e) answer 3 wrong
 - **3.** (1 punto) exercise 2b a = 4, b = 3, c = 8
 - (a) answer 2 wrong
 - (b) answer 3 wrong
 - (c) answer 1 correct
 - (d) answer 5 wrong
 - (e) answer 4 wrong

- 4. (2 punti) exercise 3d a = 5, b = 4, c = 4
 - (a) answer 2 wrong
 - (b) answer 1 correct
 - (c) answer 5 wrong
 - (d) answer 4 wrong
 - (e) answer 3 wrong
- **5.** (1 punto) exercise 2a a = 3, b = 3, c = 3
 - (a) answer 3 wrong
 - (b) answer 2 wrong
 - (c) answer 5 wrong
 - (d) answer 1 correct
 - (e) answer 4 wrong
- **6.** (1 punto) exercise 1b a = 2
 - (a) answer 1 correct
 - (b) answer 3 wrong
 - (c) answer 2 wrong
- 7. (1 punto) a = 14, b = 14, c = 4, k = 5Evaluate with two exact decimals



8. (2 punti) exercise 9c a = 5, b = 3, c = 8(b) answer 2 wrong (a) answer 1 correct (c) answer 1 correct (b) answer 5 wrong **12.** (1 punto) exercise 11a (c) answer 4 wrong $\{a, c, x\}$ (d) answer 3 wrong (e) answer 2 wrong (a) answer 3 wrong (b) answer 2 wrong **9.** (1 punto) exercise 14a a = 3, b = 3, c = 2 alphai = 5 alphaii = 7(c) answer 1 correct (a) answer 3 wrong Some other questions (b) answer 1 correct (c) answer 4 wrong **1.** (2 punti) exercise 13c a = 5, b = 5, c = 8(d) answer 5 wrong (a) answer 1 correct (e) answer 2 wrong (b) answer 2 wrong (c) answer 3 wrong **10.** (1 punto) exercise 4b a = 5, b = 5, c = 2(a) answer 5 wrong (d) answer 4 wrong (e) answer 5 wrong (b) answer 1 correct (c) answer 3 wrong **2.** (1 punto) exercise 12c a = 4, b = 2, c = 5(d) answer 2 wrong (a) answer 2 wrong (e) answer 4 wrong (b) answer 5 wrong (c) answer 3 wrong All the problems of a file **11.** (1 punto) exercise 11b (d) answer 1 correct $\{c, y, z\}$ (e) answer 4 wrong

(a) answer 3 wrong

ESERCIZIO 1. Let $A = \{a, b, c\}$ and $B = \{a, c, y\}$. (a) (2 punti) List (without repetition) the elements of the set $A \cup B$ $A \cup B =$

4 punti

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

Esercizio 2. a = 12, b = 14, c = 4

- ____ 12×14
- $_$ 12 × 14
- ____ 12 × 14
- 48:12
- ____ 4⁴

- (A) 168
- (B) 168
- (C) 168
- $(D) \quad 256$
- (E) 4

ESERCIZIO 3. Complete the following table of derivatives:





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Part One

- SOME EXERCISES FROM 2 FILES **1.** (1 punto) exercise 2c a = 5, b = 5, c = 2
 - (a) answer 1 correct
 - (b) answer 2 wrong
 - (c) answer 3 wrong
 - (d) answer 4 wrong
 - (e) answer 5 wrong
 - 2. (2 punti) exercise 3
a $a=5,\,b=4,\,c=4$
 - (a) answer 1 correct
 - (b) answer 4 wrong
 - (c) answer 3 wrong
 - (d) answer 2 wrong
 - (e) answer 5 wrong
 - **3.** (1 punto) exercise 2a a = 2, b = 5, c = 5
 - (a) answer 1 correct
 - (b) answer 2 wrong
 - (c) answer 4 wrong
 - (d) answer 3 wrong
 - (e) answer 5 wrong

- 4. (2 punti) exercise 3b a = 5, b = 5, c = 8
 - (a) answer 4 wrong
 - (b) answer 5 wrong
 - (c) answer 1 correct
 - (d) answer 3 wrong
 - (e) answer 2 wrong
- **5.** (1 punto) exercise 2b a = 5, b = 2, c = 6
 - (a) answer 4 wrong
 - (b) answer 3 wrong
 - (c) answer 1 correct
 - (d) answer 2 wrong
 - (e) answer 5 wrong
- **6.** (1 punto) exercise 14a a = 4, b = 3, c = 7 alphai = 3 alphaii = 11
 - (a) answer 3 wrong
 - (b) answer 1 correct
 - (c) answer 5 wrong
 - (d) answer 2 wrong
 - (e) answer 4 wrong
- 7. (1 punto) a = 13, b = 13, c = 3, k = 4Evaluate with two exact decimals





8. (1 punto) exercise 4c a = 3, b = 2, c = 8(c) answer 2 wrong (a) answer 1 correct **12.** (1 punto) exercise 11a (b) answer 3 wrong $\{a, b, x\}$ (c) answer 2 wrong (d) answer 4 wrong (a) answer 1 correct (e) answer 5 wrong (b) answer 2 wrong (c) answer 3 wrong **9.** (1 punto) exercise 1a a = 3Some other questions (a) answer 3 wrong (b) answer 2 wrong **1.** (1 punto) exercise 12a a = 3, b = 5, c = 3(c) answer 1 correct (a) answer 5 wrong **10.** (2 punti) exercise 9d a = 3, b = 3, c = 5(b) answer 1 correct (a) answer 1 correct (c) answer 4 wrong (b) answer 2 wrong (d) answer 3 wrong (c) answer 5 wrong (e) answer 2 wrong (d) answer 4 wrong **2.** (2 punti) exercise 13d a = 3, b = 4, c = 6(e) answer 3 wrong (a) answer 3 wrong All the problems of a file (b) answer 2 wrong **11.** (1 punto) exercise 11b (c) answer 4 wrong $\{a, b, c\}$ (d) answer 1 correct (a) answer 3 wrong (e) answer 5 wrong

(b) answer 1 correct

ESERCIZIO 1. Let $A = \{a, b, c\}$ and $B = \{a, c, y\}$. (a) (2 punti) List (without repetition) the elements of the set $A \cup B$ $A \cup B =$

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

ESERCIAL $a = 4, b =$			
	4×3	(A) 12	3 punti
	4 + 3	(B) 7	
	7 - 4	(C) 3	

ESERCIZIO 3. Solve the following equations:

	Equation	
	$x^2 + 9x + 14 = 0$	
_	$x^2 - 9x + 14 = 0$	
	$x^2 + 5x - 14 = 0$	
-	$x^2 - 5x - 14 = 0$	

4	punti

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Part One

- SOME EXERCISES FROM 2 FILES **1.** (1 punto) exercise 2b a = 3, b = 2, c = 6
 - (a) answer 1 correct
 - (b) answer 2 wrong
 - (c) answer 5 wrong
 - (d) answer 3 wrong
 - (e) answer 4 wrong
 - **2.** (1 punto) exercise 2a a = 3, b = 5, c = 6
 - (a) answer 5 wrong
 - (b) answer 4 wrong
 - (c) answer 2 wrong
 - (d) answer 3 wrong
 - (e) answer 1 correct
 - **3.** (2 punti) exercise 3a = 4, b = 4, c = 5
 - (a) answer 5 wrong
 - (b) answer 4 wrong
 - (c) answer 3 wrong
 - (d) answer 1 correct
 - (e) answer 2 wrong

- 4. (2 punti) exercise 3b a = 3, b = 5, c = 3
 - (a) answer 5 wrong
 - (b) answer 3 wrong
 - (c) answer 2 wrong
 - (d) answer 4 wrong
 - (e) answer 1 correct
- **5.** (1 punto) exercise $2c \ a = 4, b = 2, c = 6$
 - (a) answer 1 correct
 - (b) answer 2 wrong
 - (c) answer 3 wrong
 - (d) answer 4 wrong
 - (e) answer 5 wrong
- **6.** (1 punto) exercise 4e a = 2, b = 5, c = 7
 - (a) answer 5 wrong
 - (b) answer 2 wrong
 - (c) answer 1 correct
 - (d) answer 4 wrong
 - (e) answer 3 wrong
- **7.** (2 punti) exercise 9c a = 2, b = 3, c = 4
 - (a) answer 4 wrong
 - (b) answer 1 correct
 - (c) answer 2 wrong
 - (d) answer 5 wrong
 - (e) answer 3 wrong

- 8. (1 punto) exercise 1b a = 2
 - (a) answer 3 wrong
 - (b) answer 1 correct
 - (c) answer 2 wrong
- **9.** (1 punto) exercise 14a a = 4, b = 3, c = 7 alphai = 5 alphaii = 7
 - (a) answer 5 wrong
 - (b) answer 3 wrong
 - (c) answer 1 correct
 - (d) answer 4 wrong
 - (e) answer 2 wrong
- **10.** (1 punto) a = 12, b = 13, c = 3, k = 5Evaluate with two exact decimals



- All the problems of a file
- 11. (1 punto) exercise 11b

 $\{a, c, z\}$

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

 $\{b, c, x\}$

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

Some other questions

- **1.** (2 punti) exercise 13c 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
- **2.** (1 punto) exercise 12c a = 3, b = 5, c = 3
 - (a) answer 1 correct
 - (b) answer 5 wrong
 - (c) answer 4 wrong
 - (d) answer 2 wrong
 - (e) answer 3 wrong

ESERCIZIO 1. Let $A = \{a, x, y\}$ and $B = \{a, y, z\}$. (a) (2 punti) List (without repetition) the elements of the set $A \cup B$ $A \cup B =$

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

Esercizio 2.	a = 12, b = 13, c = 2

- $_$ 12 × 13
- 3^2
- _____ 36:12
- ____ 12×13
- $_$ 12 × 13 (E) 156

(A) 9

(B) 3

(C) 156

(D) 156



ESERCIZIO 3. Complete the following table of derivatives:



