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

- Write here your instructions
- 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 $3a \ a = 5, b = 3, c = 3$
 - (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=5 alphai=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 = 5 Evaluate with two exact decimals

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 12a $a=3,\,b=5,\,c=6$
 - (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 $A \cup B$ $A \cup B =$

4 punti

Esercizio 2.

 $a=5,\,b=4,\,c=6$

 5×4

(A) 20

3 punti

5+4

(B) 1

6 - 5

(C) 9

ESERCIZIO 3. Solve the following equations:

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

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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 3a 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

14:4 =	

- **8.** (2 punti) exercise 9c a = 5, b = 3, c = 8
 - (a) answer 1 correct
 - (b) answer 5 wrong
 - (c) answer 4 wrong
 - (d) answer 3 wrong
 - (e) answer 2 wrong
- **9.** (1 punto) exercise 14a $a=3,\ b=3,\ c=2$ $alphai=5\ alphaii=7$
 - (a) answer 3 wrong
 - (b) answer 1 correct
 - (c) answer 4 wrong
 - (d) answer 5 wrong
 - (e) answer 2 wrong
- **10.** (1 punto) exercise 4b a = 5, b = 5, c = 2
 - (a) answer 5 wrong
 - (b) answer 1 correct
 - (c) answer 3 wrong
 - (d) answer 2 wrong
 - (e) answer 4 wrong

11. (1 punto) exercise 11b

 $\{c, y, z\}$

(a) answer 3 wrong

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

 $\{a, c, x\}$

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

SOME OTHER QUESTIONS

- **1.** (2 punti) exercise 13c a = 5, b = 5, c = 8
 - (a) answer 1 correct
 - (b) answer 2 wrong
 - (c) answer 3 wrong
 - (d) answer 4 wrong
 - (e) answer 5 wrong
- **2.** (1 punto) exercise 12c a = 4, b = 2, c = 5
 - (a) answer 2 wrong
 - (b) answer 5 wrong
 - (c) answer 3 wrong
 - (d) answer 1 correct
 - (e) answer 4 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

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

 $\underline{}$ 12 × 14

(A) 168

___ 12 × 14

(B) 168

___ 12 × 14

(C) 168

___ 48:12

(D) 256

___ 4⁴

(E) 4

ESERCIZIO 3. Complete the following table of derivatives:

Function	
$f(x) = x^2$	
$f(x) = \sin x$	
$f(x) = \cos x$	

5	punti	

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- two
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Part One

SOME E	EXERCI	SES FROM	$_{\it I}$ $_{\it 2}$ file	ES	
1. (1	punto)	exercise	2c a = 0	5, b = 5	c = c

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

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

- (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)
$$a = 13$$
, $b = 13$, $c = 3$, $k = 4$
Evaluate with two exact decimals

- **8.** (1 punto) exercise 4c a = 3, b = 2, c = 8
 - (a) answer 1 correct
 - (b) answer 3 wrong
 - (c) answer 2 wrong
 - (d) answer 4 wrong
 - (e) answer 5 wrong
- **9.** (1 punto) exercise 1a a=3
 - (a) answer 3 wrong
 - (b) answer 2 wrong
 - (c) answer 1 correct
- **10.** (2 punti) exercise 9d a = 3, b = 3, c = 5
 - (a) answer 1 correct
 - (b) answer 2 wrong
 - (c) answer 5 wrong
 - (d) answer 4 wrong
 - (e) answer 3 wrong

11. (1 punto) exercise 11b

 $\{a, b, c\}$

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

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

 $\{a, b, x\}$

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

Some other questions

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

Esercizio 2.

 $a=4,\,b=3,\,c=7$

___ 4 × 3

(A) 12

3 punti

___ 4+3

(B) 7

 $_{--}$ 7 - 4

(C) 3

ESERCIZIO 3. Solve the following equations:

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

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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 $3a \ a = 4, b = 4, c = 5$
 - (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
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 - (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
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 - (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
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 - (c) answer 2 wrong
 - (d) answer 5 wrong
 - (e) answer 3 wrong

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

11. (1 punto) exercise 11b

 $\{a,\ c,z\}$

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

12. (1 punto) exercise 11a

 $\{b, c, x\}$

- (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
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 - (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 $A \cup B$ $A \cup B =$

4 punti

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

___ 12 × 13

(A) 9

 3^{2}

(B) 3

___ 36:12

(C) 156

___ 12 × 13

(D) 156

 $_{--}$ 12 × 13

(E) 156

ESERCIZIO 3. Complete the following table of derivatives:

Function	
$f(x) = x^2$	
$f(x) = \sin x$	
$f(x) = \cos x$	