| The name of the exam <br> 22 gennaio 2022 | Prof. | Firma leggibile dello studente |
| :--- | :--- | :--- |
| Cognome: | Nome: | Matricola: |

## INSTRUCTIONS

- Write here your instructions
- two
- three


## Part One

SOME EXERCISES FROM 2 FILES

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

$$
15: 5=\square
$$

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 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 $13 \mathrm{~b} a=4, b=4, c=6$
(a) answer 2 wrong
(b) answer 3 wrong
(c) answer 4 wrong
(d) answer 5 wrong
(e) answer 1 correct

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

Esercizio 2.
$a=5, b=4, c=6$
$-\quad 5 \times 4$
(A) 20

|  |
| :--- |
| 3 punti |

- $\quad 5+4$
(B) 1
- $6-5$
(C) 9

Esercizio 3. Solve the following equations:

| Equation |  |
| :--- | :--- |
| $x^{2}+7 x+10=0$ |  |
| $x^{2}-7 x+10=0$ |  |
| $x^{2}+3 x-10=0$ |  |
| $x^{2}-3 x-10=0$ |  |


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## Part One

SOME EXERCISES FROM 2 FILES

1. (1 punto) exercise $2 \mathrm{c} a=2, b=2, c=5$
(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 $2 \mathrm{~b} a=4, b=3, c=8$
(a) answer 2 wrong
(b) answer 3 wrong
(c) answer 1 correct
(d) answer 5 wrong
(e) answer 4 wrong
4. (2 punti) exercise $3 \mathrm{~d} a=5, b=4, c=4$
(a) answer 2 wrong
(b) answer 1 correct
(c) answer 5 wrong
(d) answer 4 wrong
(e) answer 3 wrong
5. (1 punto) exercise $2 \mathrm{a} a=3, b=3, c=3$
(a) answer 3 wrong
(b) answer 2 wrong
(c) answer 5 wrong
(d) answer 1 correct
(e) answer 4 wrong
6. (1 punto) exercise $1 \mathrm{~b} a=2$
(a) answer 1 correct
(b) answer 3 wrong
(c) answer 2 wrong
7. ( 1 punto) $a=14, b=14, c=4, k=5$ Evaluate with two exact decimals

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 $4 \mathrm{~b} a=5, b=5, c=2$
(a) answer 5 wrong
(b) answer 1 correct
(c) answer 3 wrong
(d) answer 2 wrong
(e) answer 4 wrong

All the problems of a file
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 $13 \mathrm{c} a=5, b=5, c=8$
(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

## Some other instructions.

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 $A \cap B$ $A \cap B=$

An example of matching question.

Esercizio 2. $\quad a=12, b=14, c=4$
$\qquad$ $12 \times 14$
(A) 168
$12 \times 14$
(B) 168
$12 \times 14$
(C) 168
$48: 12$
(D) 256
$4^{4}$
(E) 4

An example of "tabella" question.

Esercizio 3. Complete the following table of derivatives:

| Function |  |
| :--- | :--- |
| $f(x)=x^{2}$ |  |
| $f(x)=\sin x$ |  |
| $f(x)=\cos x$ |  |


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## Part One

SOME EXERCISES FROM 2 FILES

1. (1 punto) exercise $2 \mathrm{c} a=5, b=5, c=2$
(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 $2 \mathrm{a} a=2, b=5, c=5$
(a) answer 1 correct
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4. (2 punti) exercise $3 \mathrm{~b} a=5, b=5, c=8$
(a) answer 4 wrong
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5. (1 punto) exercise $2 \mathrm{~b} a=5, b=2, c=6$
(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 $4 \mathrm{c} a=3, b=2, c=8$
(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 $9 \mathrm{~d} a=3, b=3, c=5$
(a) answer 1 correct
(b) answer 2 wrong
(c) answer 5 wrong
(d) answer 4 wrong
(e) answer 3 wrong

All the problems of a file
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
(b) answer 1 correct
(c) answer 4 wrong
(d) answer 3 wrong
(e) answer 2 wrong
2. (2 punti) exercise 13d $a=3, b=4, c=6$
(a) answer 3 wrong
(b) answer 2 wrong
(c) answer 4 wrong
(d) answer 1 correct
(e) answer 5 wrong

## Some other instructions.

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 $A \cap B$ $A \cap B=$

Esercizio 2.
$a=4, b=3, c=7$
$-\quad 4 \times 3$
(A) 12

3 punti
_ $\quad 4+3$
(B) 7

- $\quad 7-4$
(C) 3

An example of "tabella" question.

Esercizio 3. Solve the following equations:

| Equation |  |
| :--- | :--- |
| $x^{2}+9 x+14=0$ |  |
| $x^{2}-9 x+14=0$ |  |
| $x^{2}+5 x-14=0$ |  |
| $x^{2}-5 x-14=0$ |  |


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SOME EXERCISES FROM 2 FILES

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(a) answer 1 correct
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(d) answer 3 wrong
(e) answer 4 wrong
2. (1 punto) exercise $2 \mathrm{a} a=3, b=5, c=6$
(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 $3 \mathrm{~b} a=3, b=5, c=3$
(a) answer 5 wrong
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10. ( 1 punto) $a=12, b=13, c=3, k=5$

Evaluate 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
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 $13 \mathrm{c} a=4, b=4, c=6$
(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

## Some other instructions.

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 $A \cap B$ $A \cap B=$

An example of matching question.

Esercizio 2. $\quad a=12, b=13, c=2$
$\qquad$ $12 \times 13$
(A) 9
$\qquad$ $3^{2}$
(B) 3
$36: 12$
(C) 156
$\qquad$
$12 \times 13$
(D) 156
$12 \times 13$
(E) 156

An example of "tabella" question.

Esercizio 3. Complete the following table of derivatives:

| Function |  |
| :--- | :--- |
| $f(x)=x^{2}$ |  |
| $f(x)=\sin x$ |  |
| $f(x)=\cos x$ |  |

