You can preview this quiz, but if this were a real attempt, you would be blocked because:

This quiz is not currently available

Question 1
Not yet answered
Marked out of 6.00

Find the real solution of the following equation:
$7 x-245=0$

Answer:

Question 2
Not yet answered
Marked out of 6.00

Find the real solutions of the following equation:
$0=1-\log _{14}\left(x^{2}+5\right)$
(You can choose multiple answer options.)a. 3b. every real number is a solution of the equationc. there is no real solutione. every real number is a solution of the equation except the numbers violating the restrictionsf. -3g. 5h. 14

Find the real solutions $\left(x_{1}<x_{2}\right)$ of the following equation:
$7 x^{2}-112 x=-196$
First, type in the smaller of the solutions, $x_{1}$ :

Answer:

Question 4
Not yet answered
Marked out of 6.00

Find the real solutions ( $x_{1}<x_{2}$ ) of the following equation:
$7 x^{2}-112 x=-196$
Next, type in the larger of the solutions, $x_{2}$ :

Answer: $\square$

Choose the corresponding power for each expression!

| $\frac{1}{2}$ | Choose... |
| :--- | :--- |
| 6 | Choose... |
| $2^{2} \cdot 3^{2}$ | Choose... |
| $\sqrt{2}$ | Choose... |
| 8 | Choose... |
| 1 | Choose... |
| $\sqrt[3]{2^{2}}$ | Choose... |
| $\frac{2^{-2}}{2^{3}}$ | Choose... |
| $2^{2} \cdot 2^{3}$ | Choose... |
| $\left(2^{2}\right)^{3}$ | Choose... |
| 2 | Choose... |
| 4 | Choose... |

[^0]You have just made a bank deposit at $5 \%$ fixed annual interest for 4 years. The bank deposit is currently worth 1,000 euros. Calculate how many euros the bank deposit will be worth in 4 years!

O a. 1184,49
Ob. 1215.51
Oc. 1200
O d. 1050

Marked out of 6.00

## Calculate the weighted arithmetic mean of the numbers below. Enter the result with at least 2 decimal places!

## numbers weights

| 2 | 1 |
| :--- | :--- |
| 5 | 3 |
| 6 | 2 |

Answer:

Marked out of 4.00

Graph the following function: $y=7(x-2)(x-14)$
First, choose the type of the graph.




○ a)
(b)

○c)
○ d)
(e)

○f)
○ g)
○ h)
○ I do not know the answer. ( 0 points)

Graph the following function: $y=7(x-2)(x-14)$
What is the domain of the function? (Choose one option.)

- 1. $x \in Q$
- 2. $x=2$

O $3 . y \leq-252.00$

- 4. $x \neq 0$

5. $y \geq-252.00$

O 6. $y \geq 0$

- 7. $x \notin N$
- 8. $y \in Z$
- 9. $y=0$

○ 10. $y \notin Q$
O 11. $x \notin Q$
O 12. $y \leq 0$

- 13. $x \leq 0$

O 14. $x=0$
O 15. $y \neq-252.00$
O 16. $y \notin N$
O 17. $x \in Z$

- 18. $x \geq 0$
- 19. $y>-252.00$

O 20. $x<2$

- 21. $x>0$

O 22. $x<0$
O 23. $y \in R$
O 24. $y>0$

- $25 . y \neq 0$
- 26. $x>2$
- 27. $x \notin R$
- 28. $x \neq 2$

O 29. $y \in Q$

- $30 . x \geq 2$

O 31. $y \in N$

- 32. $x \leq 2$

O 33. $y=-252.00$
O $34 . y<0$
○ $35 . y \notin Z$
O $36 . y<-252.00$
O 37. $x \in N$
O 38. $y \notin R$

- 39. $x \notin Z$

O 40. $x \in R$

Graph the following function: $y=7(x-2)(x-14)$
What is the range of the function? (Choose one option.)

O 1. $y \leq 0$

- 2. $x \notin N$

O 3. $y=0$
O 4. $x \leq 0$

- 5. $y>0$
- 6. $x \notin Z$
- 7. $x=2$
- 8. $y \in R$
- 9. $x<2$

O 10. $y=-252.00$
O 11. $x \in Q$
O 12. $y \leq-252.00$
O 13. $y \in N$
O 14. $x>0$
(15. $x=0$

O 16. $x \leq 2$

- 17. $x \geq 2$

O 18. $y \geq-252.00$
O 19. $x \in N$

- 20. $y \notin Q$

O 21. $x \in R$
O 22. $y<-252.00$

- 23. $y \neq 0$

○ 24. $y \notin Z$
O 25. $x>2$
O 26. $x \notin Q$

- 27. $x \neq 2$
- 28. $x \notin R$

O 29. $y>-252.00$
O 30. $y \in Q$
○ $31 . y \notin R$
O 32. $x<0$

- 33. $x \neq 0$

O 34. $y \neq-252.00$

- $35 . x \geq 0$

O $36 . y \in Z$
O 37. $y \notin N$
O 38. $y<0$

- $39 . y \geq 0$

O 40. $x \in Z$

[^1]Marked out of 4.00

Graph the following function: $y=7(x-2)(x-14)$
What is the $y$-intercept of the function? (Type in the answer.)

Answer:

## Question 12

Not yet answered
Marked out of 8.00

Factorize the following expression: $7 x^{2}-112 x+196$
a) $7(x+2)^{2}$
b) $7(x-2)^{2}$
c) $7(x+2)(x-2)$
d) $7(x+14)(x-2)$
e) $7(x-2)(x-14)$
f) $7(x+14)^{2}$
g) $7(x-14)^{2}$
$\bigcirc a$
$\bigcirc b$
$\bigcirc c$
$\bigcirc d$
$\bigcirc$ e
○f
$\bigcirc g$
○ I do not know the answer. (0 points)

## Question 13

Not yet answered
Marked out of 8.00

Simplify the following fraction: $\frac{7 x^{2}-112 x+196}{x^{2}-196}$
a) 1
b) $x$
c) $x^{2}$
d) $7 \frac{x+14}{x-14}$
e) $7 \frac{x-2}{x+14}$
f) $\frac{7 x-28}{196}$
g) $7 x-224$

O a
$\bigcirc$ b
O c
O d
○ e
Of
$\bigcirc \mathrm{g}$
O I do not know the answer. (0 points)

## Question 14

Not yet answered
Marked out of 8.00

Find all solutions to the following system of equations:
$2 x+12 y=18$
$8 x+49 y=72$
Type in the value of $x$.

Answer:

## Question 15

Not yet answered
Marked out of 8.00

Find all solutions to the following system of equations:
$2 x+12 y=188 x+49 y=72$
Type in the value of $y$.

Answer: $\square$

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Question 16
Not yet answered
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Marked out of 8.00

Let us consider the following three polynomials:
$\backslash\left(P_{-} 1(x)=3 x^{\wedge} 2-x+4 \backslash\right)$
<br>( $P$ _2 $\left.(x)=x^{\wedge} 3+x^{\wedge} 2 \\right)$
$\backslash\left(P \_3(x)=x^{\wedge} 2-1 \\right)$
Find the corresponding operation for each expression below!

| $\backslash\left(x^{\wedge} 3+4 x^{\wedge} 2-x+4 \backslash\right)$ | Choose... |
| :--- | :--- |
| $\backslash\left(3 x^{\wedge} 4-x^{\wedge} 3+x^{\wedge} 2+x-4 \backslash\right)$ | Choose... |
| $\backslash\left(x^{\wedge} 4-2 x^{\wedge} 2+1 \backslash\right)$ | Choose... |
| $\backslash\left(x^{\wedge} 3+1 \backslash\right)$ | Choose... |
| $\backslash\left(\backslash \operatorname{frac}\left\{x^{\wedge} 2\right\}\{x-1\} \backslash\right)$ | Choose... |

- Mathematical Test

Jump to...


[^0]:    Question 6
    Not yet answered
    Marked out of 6.00

[^1]:    Question 11
    Not yet answered

