# р. н. н. р. э. н. э. н. Д. . .

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

80

This quiz is not currently available

Question 1
Not yet answered
Marked out of 6.00
Find the real solution of the following equation:
7x - 245 = 0
Answer:
Question 2
Not yet answered
Marked out of 6.00
Find the real solutions of the following equation:
$0 = 1 - \log_{14}(x^2 + 5)$
(You can choose multiple answer options.)
□ a. 3
b. every real number is a solution of the equation
c. there is no real solution
🗆 d.0
$\Box$ e. every real number is a solution of the equation except the numbers violating the restrictions
□ f3
🗆 g. 5
🗆 h. 14

Question **3** Not yet answered Marked out of 6.00

Find the real solutions  $(x_1 < x_2)$  of the following equation:

## $7x^2 - 112x = -196$

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:

 $7x^2 - 112x = -196$ 

Next, type in the larger of the solutions,  $x_2$ :

Answer:

Not yet answered

Marked out of 8.00

### 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	
$(2^2)^3$	Choose	
2	Choose	
4	Choose	

#### Question 6

Not yet answered

Marked out of 6.00

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
- O b. 1215.51
- O c. 1200
- O d. 1050

Not yet answered

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:			
---------	--	--	--

Not yet answered

Marked out of 4.00

Graph the following function: y=7(x-2)(x-14)

First, choose the type of the graph.







- O a)
- O b)
- O c)
- O d)
- Ое)
- f)
- O g)
- O h)
- $\bigcirc\;$  I do not know the answer. (0 points)

Question **9** Not yet answered Marked out of 4.00

> Graph the following function: y = 7(x - 2)(x - 14)What is the **domain** of the function? (Choose one option.)  $\bigcirc$  1. x  $\in$  Q

○ 2. x=2 O 3. y≤-252.00 O 4. x≠0 ○ 5. y≥-252.00 O 6. y≥0 O 7. x∉N ○ 8. y∈Z ○ 9. y=0 O 10. y∉Q O 11. x∉Q O 12. y≤0 O 13. x≤0 ○ 14. x=0 O 15. y≠-252.00 O 16. y∉N O 17. x∈Z O 18. x≥0 ○ 19. y>-252.00 ○ 20. x<2 ○ 21. x>0 ○ 22. x<0 O 23. y∈R ○ 24. y>0 O 25. y≠0 ○ 26. x>2 O 27. x∉R O 28. x≠2 ○ 29. y∈Q O 30. x≥2 O 31. y∈N O 32. x≤2 ○ 33. y=-252.00 ○ 34. y<0 O 35. y∉Z ○ 36. y<-252.00 O 37. x∈N O 38. y∉R O 39. x∉Z

O 40. x∈R

Question **10** Not yet answered Marked out of 4.00

Graph the following function: y = 7(x - 2)(x - 14)What is the **range** of the function? (Choose one option.)  $\bigcirc$  1. y  $\leq 0$  $\bigcirc$  2. x  $\notin N$  $\bigcirc$  3. y = 0 $\bigcirc$  4. x  $\leq 0$ 

- 5. y>0○ 6. x∉Z
- 7. x=2
- 8. y∈R
- 9. x<2
- 10. y=-252.00
- 11. x∈Q
- O 12. y≤-252.00
- O 13. y∈N
- 14. x>0
- 15. x=0
- O 16. x≤2
- O 17. x≥2
- 18. y≥-252.00
- 19. x∈N
- O 20. y∉Q
- O 21. x∈R
- 22. y<-252.00
- O 23. y≠0
- O 24. y∉Z
- 25. x>2
- O 26. x∉Q
- O 27. x≠2
- O 28. x∉R
- 29. y>-252.00
- O 30. y∈Q
- O 31. y∉R
- 32. x<0
- O 33. x≠0
- O 34. y≠-252.00
- O 35. x≥0
- O 36. y∈Z
- O 37. y∉N
- 38. y<0
- O 39. y≥0
- O 40. x∈Z

Question **11** Not yet answered

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:  $7x^2 - 112x + 196$ 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)  $7(x - 14)^2$ 

- Oa
- 0 b
- c
- $\bigcirc$  d
- О е
- Οf
- Οg
- $\bigcirc$  I do not know the answer. (0 points)

Question **13** Not yet answered

Marked out of 8.00

	Simplify the following fraction: $\frac{7x^2-112x+196}{2}$
	$x^2 - 196$
	$C_{2} x^{-1}$
	d) $\gamma \frac{1}{x-14}$
	e) $7 \frac{x-z}{x+14}$
	f) $\frac{7x-28}{196}$
1	g) $7x-224$
	O f
	Oq
	<ul> <li>I do not know the answer. (0 points)</li> </ul>
i-	
Qu	lestion 14
No	ty et answered
M	arked out of 8.00
	Find all solutions to the following system of equations: 2x + 12y = 18 8x + 49y = 72 Type in the value of $x$ .
	Answer:
_	
Qu	estion 15
No	bt yet answered
M	arked out of 8.00
	Find all solutions to the following system of equations:
	2x + 12y = 188x + 49y = 72
	Type in the value of <i>y</i> .
	Answer:

Not yet answered

Marked out of 8.00

Let us consider the following three polynomials:

\( P\_1(x)= 3x^2-x+4 \)

\( P\_2(x)= x^3+x^2 \)

\( P\_3(x)= x^2-1 \)

Find the corresponding operation for each expression below!

\( x^3+4x^2-x+4 \)	Choose
\( 3x^4-x^3+x^2+x-4\)	Choose
\( x^4-2x^2+1 \)	Choose
\( x^3+1 \)	Choose
\( \frac{x^2}{x-1} \)	Choose

#### Mathematical Test

Jump to ...