hw-03-quadratic-equation-in-reals

Due: 12/12/2015 at 06:00am EST.
Students will be able to:
• Solve Quadratic Equations in the Real Domain
Functions and symbols that WeBWorK understands.
Links to some useful WeBWorK pages for students
1. (1 pt) Solve the equation $x^2 - 4x - 32 = 0$ by factoring.
The solution(s) are Note: If there is more than one answer, give them as a comm- separated list. If there are none, enter <i>NONE</i> .
2. (1 pt) Find all real solutions of the following equation: $4x^2 = 9$
Your answer:
Note: you have to use fractions, not decimals in your an swer.
Note: if there are several solutions, enter those separated by
Note: if there are no real solutions, enter <i>no real solutions</i>
3. (1 pt) Find all real solutions of the following equation: $x^2 = 225$
Your answer:
Note: if there are several solutions, enter those separated by commas. Note: if there are no real solutions, enter <i>no real solutions</i>
4. (1 pt) Find all real solutions of the following equation: $x^2 - 121 = 0$
Your answer:
Note: if there are several solutions, enter those separated by commas. Note: if there are no real solutions, enter <i>no real solutions</i>
5. (1 pt) Find all real solutions of the following equation: $16 - 169x^2 = 0$
Your answer:
Note: you have to use fractions, not decimals in your an

swer. **Note:** if there are several solutions, enter those separated by

Note: if there are no real solutions, enter *no real solutions*

6. (1	pt) Find all real solutions of the following equation:
7 2	175
$\frac{7}{17}x^2 =$	4352

you have to use fractions, not decimals in your an-Note:

Your answer: __

swer.

Note: if there are several solutions, enter those separated by commas.

Note: if there are no real solutions, enter *no real solutions*

7. (1 pt) Find all real solutions of the following equation: $\frac{11}{15}x^2 - \frac{1100}{1815} = 0$

Your answer:

you have to use fractions, not decimals in your answer.

Note: if there are several solutions, enter those separated by commas.

Note: if there are no real solutions, enter *no real solutions*

8. (1 pt) Find all real solutions of the following equation: $12x^2 - 19x = 0$

Your answer: ____

you have to use fractions, not decimals in your an-Note: swer.

Note: if there are several solutions, enter those separated by commas.

Note: if there are no real solutions, enter *no real solutions*

9. (1 pt) Find all real solutions of the following equation: $\frac{2}{3}x = \frac{14}{5}x^2$

Your answer: _

you have to use fractions, not decimals in your an-Note: swer.

Note: if there are several solutions, enter those separated by

Note: if there are no real solutions, enter *no real solutions*

10. (1 pt) Find all real solutions of the following equation: $x^2 - 10x - 39 = 0$

Your answer: _

Note: you have to use fractions, not decimals in your answer.

Note: if there are several solutions, enter those separated by

Note: if there are no real solutions, enter *no real solutions*

11. (1 pt) Find all real solutions of the following equation:	commas. Note: if there are no real solutions, enter <i>no real solutions</i>	
$6x^2 - 95x + 75 = 0$	16. (1 pt) Find all real solutions of the following equation: $x^2 + 36 = 0$	
Your answer:		
Note: you have to use fractions, not decimals in your an-	Your answer:	
Note: if there are several solutions, enter those separated by	Note: if there are several solutions, enter those separated	
commas.	by commas. Note: if there are no real solutions, enter <i>no real solutions</i>	
Note: if there are no real solutions, enter <i>no real solutions</i>	17. (1 pt) Find all real solutions of the following equation:	
12. (1 pt) Find all real solutions of the following equation: $30x^2 - 31x + 5 = 0$	$(x+14)^2 = 400$	
Your answer:	Your answer:	
Note: you have to use fractions, not decimals in your an-	Note: you have to use fractions, not decimals in your answer.	
Note: if there are several solutions, enter those separated by commas.	Note: if there are several solutions, enter those separated by commas. Note: if there are no real solutions, enter <i>no real solutions</i>	
Note: if there are no real solutions, enter <i>no real solutions</i>	18. (1 pt) Find all real solutions of the following equation:	
13. (1 pt) Find all real solutions of the following equation: $6x^2 + \frac{13}{4}x + \frac{33}{14} = 5x^2 + \frac{10}{7}x + 7$	$(5x - 18)^2 - \frac{256}{25} = 0$	
Your answer:	Your answer:	
Note: you have to use fractions, not decimals in your answer.	Note: you have to use fractions, not decimals in your answer.	
Note: if there are several solutions, enter those separated by	Note: if there are several solutions, enter those separated by commas.	
Note: if there are no real solutions, enter <i>no real solutions</i>	Note: if there are no real solutions, enter <i>no real solutions</i>	
14. (1 pt) Find all real solutions of the following equation: $-17x^2 - 13x + 10 = 0$	19. (1 pt) A rectangular garden is 5 ft longer than it is wide. Its area is 1050 ft ² . What are its dimensions?	
Your answer: $\underline{\hspace{1cm}}$	Its width equals and its length equals	
Note: you have to use fractions, not decimals in your an-	20. (1 pt) A box with a square base and no top is to be made	
swer.	from a square piece of carboard by cutting 3 in. squares from each corner and folding up the sides. The box is to hold 14700	
Note: if there are several solutions, enter those separated by	in ³ . How big a piece of cardboard is needed?	
Note: if there are no real solutions, enter <i>no real solutions</i>	Your answer is: in. by in.	
15. (1 pt) Find all real solutions of the following equation:	Tour answer is iii. by iii.	
$3x - 2x^2 - 4 = 0$	21. (1 pt) The surface area of a cube is 62 cm ² . What is the volume of the cube?	
Your answer:		
Note: you have to use fractions, not decimals in your answer.	Note: Your answer must be a number or a decimal. It may not contain any arithmetic operations.	
Note: if there are several solutions, enter those separated by	The volume of the cube is cm ³ .	

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