Unit 4 Exam Review

Online version of the Chapter 4 Review Assignment

*	Required	
1.	Email address *	
2.	Have you accessed the Khan Academy Class? *	5 points
	Mark only one oval.	
	Yes	
	No	
Plea func	aph the function. Label the vertex and axis of symmetry. se graph the following functions on a separate piece of paper. Select if you were able to graph and label tions. Then compare your graph to the answer key provided and mark if your graphs and labels are cork if you were unable to graph or label the functions.	
3.	1. y = x^2 - 8x- 20 *	2 points
	Check all that apply.	
	I graphed and labeled the function.	
	My graph and labels are correct.I was unable to graph or label the function.	

Check all that apply. I graphed and labeled the function.	
 My graph and labels are correct. I was unable to graph or label the function. 3. f(x) = -2(x + 4)(x - 2) * Check all that apply. I graphed and labeled the function. 	
I was unable to graph or label the function. 5. 3. f(x) = -2(x + 4)(x - 2) * Check all that apply. I graphed and labeled the function.	
5. 3. $f(x) = -2(x + 4)(x - 2) *$ Check all that apply. I graphed and labeled the function.	
Check all that apply. I graphed and labeled the function.	
Check all that apply. I graphed and labeled the function.	
I graphed and labeled the function.	points
My graph and labels are correct	
My graph and labels are correct.	
I was unable to graph or label the function.	
Factor the expression.	
Show all of your work.	
6. 4. x^2 - 11x + 30 *	points
7. 5. z^2 + 2z - 15 *	points

8.	6. n^2 - 64 *	3 points
9.	7. 2s^2 + 7s - 15 *	3 points
10.	8. 9x^2 + 30x + 25 *	3 points
11	0 (140	
11.	9. 6t^2 + 23t + 20 *	3 points

Solve the equation.

Don't forget to state what the variables are equal to.

12.	10	x^2 ·	- 3x -	40 =	= O *

3 points

13.	11. $r^2 - 13r + 42 = 0$

3 points

14.	12. 2w^2 + 13w - 7 = 0 *
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3 points

15.	13. 10y^2 + 11y - 6 = 0 *	3 points
16.	14. 2(m - 7)^2 = 16 *	3 points
17.	15. (x + 2)^2 - 12 = 36 *	3 points

Write the expression as a complex number in standard form.

Remember what i^2 is equal to!

18.	16.	(3 +	4i) -	(2 -	5i)	*
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3 points

19.	17. (2 - 7i)(1 + 2i) *
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3 points

20.	18. (3+i)/(2 - 3i) *
20.	10. (011)/(2 01)

3 points

Solve the equation by completing the square.

21. 19.
$$x^2 + 4x - 14 = 0$$

3 points

22.	20. x^2 - 10x - 7 = 0 *	3 points
23.	21. 4x^2 + 8x + 3 = 0 *	3 points

Use the quadratic formula to solve the equation.

Find a, b, and c for each equation. Solve each equation on a separate piece of paper. Compare your work to the answer key provided. Mark if your answer is correct.

24. 22. $3x^2 + 10x - 5 = 0$

3 points

Mark only one oval per row.

	-15	-3	10	0	5	-5	3
a =							
b =							
C =							

25.	Was your answer for 22 correct? *						1 point		
	Mark on	ly one ova	l.						
	Yes								
	O No								
26.	23. 2x^2	- x + 6 = 0) *						3 points
	Mark only	one oval p	per row.						
		2	-2	0	1	-1	6	12	
	a =								
	b =								
	C =								
27.	Was you	ır answer	for 23 cc	orrect? *					1 point
	Mark only one oval.								
	Yes								
	O No								
28.	24. 5x^2	+ 2x + 5 =	= O *						3 points
	Mark only one oval per row.								
		-5	2	-2	5	0	25	10	
	a =								
	b =								
	C =								

4/16/2021 Unit 4 Exam Review

29.	Was your answer for 24 correct? *	1 point
	Mark only one oval.	
	Yes	
	No	
Pleas	ph the inequality e graph the following inequalities on a separate piece of paper. Then compare your graph to the answ ded and mark if it is correct.	ver key
30.	25. y ≥ x^2 - 8 *	3 points
	Before you graph, check all features that apply to the quadratic inequality and its graph.	
	Check all that apply.	
	dotted line	
	solid line	
	greater than	
	less than	
	greater than or equal to	
	less than or equal to	
	opens up opens down	
	opens down	
31.	Was your graph for 25 correct? *	1 point
	Mark only one oval.	
	Yes	
	No	

32.	26. y < x^2 + 4x - 21 *						
	Before you graph, check all features that apply to the quadratic inequality and its graph.						
	Check all that apply.						
	dotted line						
	solid line						
	greater than						
	less than						
	greater than or equal to						
	less than or equal to						
	opens up						
	opens down						
33.	Was your graph for 26 correct? *	1 point					
	Mark only one oval.						
	Yes						
	No						
34.	27. y > -x^2 + 5x + 50 *	3 points					
	Before you graph, check all features that apply to the quadratic inequality and its graph.						
	Check all that apply.						
	dotted line						
	solid line						
	greater than						
	less than						
	greater than or equal to						
	less than or equal to						
	opens up						
	opens down						

Unit 4 Exam Review

4/16/2021

35.	Was your graph for 27 correct? *	1 point					
	Mark only one oval.						
	Yes						
	◯ No						
Write	Write a quadratic function whose graph has the given characteristics.						
36.	28. x-intercepts: -7, -3; passes through: (-1, 12) * What form should you write this quadratic function in?	1 point					
	Mark only one oval.						
	standard form						
	vertex form						
	intercept form						
37.	28. continued *	1 point					
	Enter your completed quadratic function in the appropriate form.						
20	20 vertex (2 2); pages through (1 10) *	4					
38.	29. vertex: (-3, -2); passes through: (1, -10) * What form should you write this quadratic function in?	1 point					
	Mark only one oval.						
	standard form						
	vertex form						
	intercept form						

39.	20	continued	1 7
J. 79.	/7.	COHUHUEC	1

1 point

Enter	your	completed	quadratic	Tunction	in the	appropriate	e tor

40. 30. passes through: (4, 8), (7, -4), (8, 0) *

1 point

What form should you write this quadratic function in?

Mark only one oval.

- standard form
- vertex form
- intercept form

41. 30. continued *

1 point

Enter your completed quadratic function in the appropriate form.

42. 31. ASPECT RATIO *

5 points

The aspect ratio of a widescreen TV is the ratio of the screen's width to its height, or 16:9. What are the width and the height of a 32 inch widescreen TV? (Hint: Use the Pythagorean theorem and the fact that TV sizes such as 32 inches refer to the length of the screen's diagonal.)



4/16/2021 Unit 4 Exam Review

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