Algebra 2 Review Quiz 6 LOOKALIKE (Chapters 1-7)

Name								
	1.	Solve:	5(2n+3)	= n + 10 + 9	9n + 5			
	2.	Solve:	$\frac{2n+6}{6} = \frac{n}{6}$	$\frac{i+5}{2}$				
	3.	Solve:	-3(2a-4)	= -2(2a + 8)	3)			
	4.	Solve:	n + 1 -	- 4 = 10				
	5.	In interval	notation, wl	nat is x < 3	3?			
	6.	What is the A. [-3, 3)				aph Page? 2, 1]	D. [[-2, 1)
	7.	What is the A. [-3, 3)				oh Page? 2, 1]	D. [[-2, 1)
	8.	What is the A. R excep				C. R : $x \ge 3$	}	D. R
	9.	What is the						
	A. R except $x \neq -6$ B. R : $x > -6$ C. R: $x \geq -6$ D. R 10. Looking at Graph 2, what interval is the graph decreasing ? A. $(-\infty, -1.2)$ $(1.2, \infty)$ B. $(-1.2, 1.2)$ C. $(-\infty, -2)$ $(2, \infty)$ D. $(-1.2, 3)$							
	11	. Factor	$x^2 - 25$					
	12	. Factor	$x^2 - 9x +$	20				
	13	. What is the	x-intercept	of $f(x) = x^2$	$x^2 + 7x + 10$)?		
	14	. What is the	y-intercept	of $f(x) = x^2$	$x^2 + 9x + 2$	0?		

	A. The grap B. The grap C. The grap	hing $f(x) = 9(x+2)^3 - 5$, so histretched right 2 units oth stretched horizontally othed shifted up 5 units these things happened.	what is true?	
Look at the graphs	on the graph sh	eet and determine the e	quation of graph 3	3 and 4.
	16. Graph 3			
	17. Graph 4			
	18. Simplify:	$\sqrt[3]{8a^6}$		
	19. Simplify:	$\sqrt{18} + \sqrt{50}$		
	20. Simplify:	$\frac{2}{\sqrt{3}}$		
	21. Simplify:	$\frac{2+\sqrt{2}}{2-\sqrt{2}}$		
		o its lowest value, what i B1		Di
	23. Simplify	(4-3i)(5-2i)		
	-	d radical form, what is B. $\sqrt[5]{x^4}$	$x^{\frac{3}{5}} \bullet x^{\frac{1}{4}}$ C. $x^{7}\sqrt{x^{3}}$	D. $\sqrt[20]{x^{17}}$
	25. In simplified	d radical form, what is	$\left(x^{\frac{2}{3}}\right)^{\frac{4}{5}}$	
	A. $\sqrt[15]{x^8}$	B. $x\sqrt[7]{x^6}$	C. $x\sqrt[15]{x^7}$	D. $x^{15}\sqrt{x^3}$
	26. Solve for x:	$3\sqrt{7x+2}+1=13$		

	27. Factor $3n^2 + 11n + 6$
	28. Use factoring to solve $2n^2 + n - 10 = 0$
	29. Solve for the variable using your knowledge of square roots: $2(x+2)^2 - 32 = 0$
	30. If the discriminant value of a quadratic is 12, how many solutions exist?
	21. What would have been the discriminant value of the equation in Graph 5?
	22. Use the quadratic equation to solve $4x^2 + 5x + 1 = 0$. Round yours answers to the nearest tenth.
For 33-35, let	$f(x) = 4x - 3$ $g(x) = 5x + 3$ $h(x) = x^2$
	$_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{$
	34. f(g(-1))
	35. h(g(x))
	36. What is the inverse of $f(x) = x^2 + 7$?

Graph Page









