Algebra 2 Review Quiz LOOKALIKE (Chapters 1-6) YOU MUST SHOW ME YOUR SCRATCH WORK, SO DON'T LOSE IT.

Name								
	1.	Solve:	5(2n + 3)	= n + 10 + 9	9n+5			
	2.	Solve:	$\frac{2n+6}{6} = \frac{1}{6}$	$\frac{n+5}{2}$				
	3.	Solve:	-3(2a-4)	a = -2(2a + 8))			
	4.	Solve:	n+1	- 4 = 10				
	5.	In interval n	otation, w	hat is $x < 3$?			
	6.	What is the A. [-3, 3)		-		raph Page?	D.	[-2, 1)
	7.	What is the A. [-3, 3)				ph Page? 2, 1]	D.	[-2, 1)
	8.	What is the A. R except				C. R : <i>x</i> ≥3		D. R
	9.	What is the						
	10.		Graph 2, w 2) (1.2, ∞)		is the gra B. (-	C. R: $x \ge -6$ sph decreasin (1.2, 1.2) (-1.2, 3)		D. R
	11.	Factor	$x^2 - 25$					
	12.	Factor	$x^2 - 9x +$	20				
	13.	What is the	x-intercep	t of $f(x) = x^2$	+ 7x +10)?		
	14.	What is the	y-intercept	$f(x) = x^2$	+9x + 2	0?		

15. When gr	raphing $f(x) = 9(x+2)^3 - 5$, what is true?	
B. The g	graph shifted right 2 units graph stretched horizontally graphed shifted up 5 units	<i>I</i>	
	e of these things happened.		h. 2l. 4
Look at the graphs on the graph	sneet and determine the	equation of graj	pn 3 and 4.
16. Graph 3			
17. Graph 4			
18. Simplify	$3\sqrt{8a^6}$		
19. Simplify	$18 + \sqrt{50}$		
20. Simplify	$: \frac{2}{\sqrt{3}}$		
21. Simplify	$: \frac{2+\sqrt{2}}{2-\sqrt{2}}$		
22. Simplifie	ed to its lowest value, what	is i ¹⁹ ?	
A. 1	B1	C. i	Di
23. Simplify	(4-3i)(5-2i)		
24. In simpli	ified radical form, what is	$x^{\frac{3}{5}} \bullet x^{\frac{1}{4}}$	
A. $\sqrt[9]{x^{10}}$		C. $x\sqrt[7]{x^3}$	D. $\sqrt[20]{x^{17}}$
25. In simpli	ified 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?
	31. 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.

Graph Page









