Unit 4 1.11		Quadratics Practice Quiz			Name	
For pro a. b. c.	blems 1-4, Circle if each sequence is ari Write a formula for the sequ Find the next 3 terms of eac	ithmetic, geometric, quadratic, or uence if it is arithmetic or geomet h sequence.	none of r ic .	these.		
1.	8, 11, 15, 20	Circle One:	А	G	Q	None
		Formula (if A or G):				
		Next 3 terms:				-
2.	1.6, 4, 10, 25	Circle One:	A	G	Q	None
		Formula (if A or G):				
		Next 3 terms:				-
3.	44, 31, 18, 5	Circle One:	A	G	Q	None
		Formula (if A or G):				
		Next 3 terms:				-
4.	44, 31, 20, 11	Circle One:	А	G	Q	None
		Formula (if A or G):				
		Next 3 terms:				-

5. Mrs. VerHeecke's sling shot can shoot a student's cellphone into the air with an initial velocity of 96 feet per second. She launches the phone from an initial height 5 feet above the ground. If acceleration due to gravity is -16 feet per second squared, write and graph a quadratic equation to model the projectile motion of the cellphone.



Unit 4 1.11

Quadratics Practice Quiz

Name_____

6. During an archery class Mrs. Pitcher climbs to the top of a 76 foot tree and shoots an arrow upward with a velocity of 144 feet per second. The equation below models this scenario.

$$h(t) = -16t^2 + 144t + 76$$

- a. How long is the arrow in the air?
 b. What is the maximum height the arrow will reach?
 c. At what time will the arrow reach the maximum height?
- d. Use the equation to find the exact height the arrow is after 3 seconds.