Name:		Unit 8: Quadratic Equations
Date:	Bell:	Homework 14: Projectile Motion
 When a cannonbal a) Find the maximum 	Il is fired, the equation of its p um height of the cannonball.	The athway can be modeled by $h = -16t^2 + 128t$.
b) Find the time it	will take for the cannonball to	o reach the ground.
2. When Joey dives o	off a diving board, the equation	on of his pathway can be modeled by $h = -16t^2 + 15t + 12$
	inium neight.	
b) Find the time it	will take for Joey to reach the	e water.
	· · · · · · · · · · · · · · · · · · ·	
3. A toy rocket is laumodeled by $h = -$	inched from a platform that is $16t^2 + 32t + 48$.	48 feet high. The rocket's height above the ground is
a) Find the maxim	um height of the rocket.	
b) Find the time it	t will take for the rocket to rea	ach the ground.
 At the end of the building. The equ textbook beat Am 	school year, Rachel and Amb Jation of the pathway of each hber's textbook to the ground	er threw their Algebra textbooks off the top of a 12-story book is given below. By how many seconds does Rachel's ?
Rachel: h	$= -16t^2 + 36t + 160$	Amber: $h = -16t^2 + 50t + 160$

	height and t is the time in a		ie maximum neigi		SMC.	1.1.1
	•					
				Α.	80 feet	
				В.	90 feet	
				с.	125 feet	
			-	D.	140 feet	
•	A rock is dropped from brid by the equation $h = -16t^2$	ge 320 feet above + 320 . How long	a river. The path will it take the roo	way that the k to reach th	rock takes can he river?	be modeled
				А.	2.5 sec	
				в.	3.5 sec	
				C.	3.8 sec	
				D.	4.5 sec	
						х
		د ۱۹۹۹ - ۲۹۹۹ ۱۹۹۹ - ۲۹۹۹ - ۲۹۹۹ ۱۹۹۹ - ۲۹۹۹ - ۲۹۹۹				
1.	Natalie found a tennis ball into the court. The path of a. Find the maximum heig	outside a tennis cou f the ball can be rep ght of the tennis bal	urt. She picked up presented by the e II. b. How Ion	the ball and the ball and the ball and the sequation $h =$	threw it over t -16 t^2 + 18 t + to reach the gr	the fence 5. round?
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