Name: _

Semester 2 Final Review C Quadratic Graphs

Write the roots as points.		
Example:	1. What are the root(s) of the quadratic equation whose	
What are the root(s) of the quadratic equation whose	related function is graphed?	
related function is graphed?		
roots		
The roots are $(-1,0) \& (1,0)$.		
2. What are the root(s) of the quadratic equation whose	3. What are the root(s) of the quadratic equation whose	
related function is graphed?	related function is graphed?	
4. What are the root(s) of the quadratic equation whose	5. What are the root(s) of the quadratic equation whose	
related function is graphed?	related function is graphed?	

Write the solutions in reduced radical form.





Determine the factors, the simplest form of the quadratic equation, and the *x*-intercepts from the given solutions.



	Name:			
10. Heather hits a baseball up into the air from a height of 4	11. Nadia hits a baseball up into the air from a height of 2			
feet. The graph represents the height of the baseball above	feet. The graph represents the height of the baseball above			
the ground, in feet, as a function of the horizontal distance	the ground, in feet, as a function of the horizontal distance			
the ball travels, in feet.	the ball travels, in feet.			
$(\mathbf{u}) \\ \mathbf{u} $	$\begin{array}{c} 10\\ H\\ 10\\ H\\ 10\\ H\\ 10\\ H\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$			
Describe the path of the ball.	Describe the path of the ball.			
a. At 1 ft, away is the ball rising or falling?	a. At 2 ft, away is the ball rising or falling?			
b. Does the ball land at 8 ft away, at more than 8 ft away or at less than 8 ft away?	b. Does the ball land at 1 ft away, at more than 1 ft away or at less than 1 ft away?			

Semester 2 Final Review C Quadratic Graphs Answers:

1. (-5, 0) & (-	-1, 0)	2. (-1, 0) & (-2,	0) 3. (-2, 0) & (2, 0)	4. (2, 0) & (5, 0)	5. (-2, 0) & (3, 0)
6. B	7. A	8. D	9a. Falling	10a. Rising	11a. Falling
			9b. Less than 4 ft away	10b. At 8 ft away	11b. More than 1 ft away