

Get out homework from Wed & Thurs:

- ... Solving Quadratic Application Problems
- ... Solving
 Quadratics by
 Factoring

7) $k^2 + 4 = 4k$	8) $p^2 - 3 = -2p$
9) $6x^2 - 3 = 7x$	$10) \ 3n^2 - 7n = 6$
11) $3m^2 - 2 = 5m$	12) $6x^2 + 2 = -7x$
11) 500 - 2 - 500	12) 01 12 71
13) $9n^2 - 15n - 6 = 0$	14) $4b^2 = 6 - 10b$
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Algebra 2 Solving Quadratic Application Problems	Name:Period:
	Date: Period:
Solving Quadratic Application Problems SHOW YOUR WORK FOR ALL PROBLEMS 1.) Imagine you have a large, ground based concept You take a cow, put it in the catapult, and	Date:Period: S. Atapult, and no feelings for the well-being of animals. Let Betsy fly. Betsy will follow a parabolic path! Let's say
Solving Quadratic Application Problems SHOW YOUR WORK FOR ALL PROBLEMS 1.) Imagine you have a large, ground based concern You take a cow, put it in the catapult, and her height above the earth is modeled by the solution of	Date:Period:
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prehistoric battle. Bob's enemies have a cannon, perched atop a 448 foot tower, that can shoot a pretty mean, parabolic-path following ball of dragon killing iron. Suppose the height of the cannon ball is modeled by
$h(t) = -16t^2 + 192t + 448,$ where $h(t)$ is measured in feet and t is measured in seconds.
a) When will the cannon ball reach its highest point?
b) What is the cannon ball's maximum height?
c) When will the cannon ball land on the ground? Hint: Set your function equal to 0, then solve by factoring. You should find two answers.
and
d) Are both of your answers from part (c) reasonable? Explain.



If you haven't turned in homework from week, please turn in:

- ... Blue Graphing WS
- ... Graphing Factored Form WS