Do Now

1. Ben dives from a 10-foot platform. The equation
 h = -16t² +27t + 10 models the dive. How long will it take Ben to reach the water?

O=-16t2+27t+10

t=2sec

FOOTS

BOINTIONS

ZEROS

X-Intumply

2. A football is kicked up from ground level. The pathway of ball can be represented by the equation h = -16t² + 92t. Will the football hit a scoreboard located 130 feet from the ground?

130 = -16t²+92t 0=-16t²+92t -130 6=16t²-92t +130

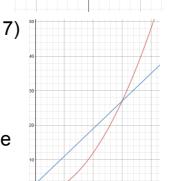
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Homework Answers:



- 1) 1
- 2) 2
- 3) 1
- 4) 3
- 5) a. (-5, 64) & (2, 1)

b. (2, 2) & (3, 1)



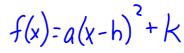
(0, 5) & (3, 2)

8) at 7 weeks, the x-value of the positive point of intersection

x valule of 300 a(x) is better at 200

Unit 10 Test Review: Day 1

- Graphing Quadratic Functions
 - > Creating Tables of Values
- Graphical Features of a Quadratic Function
 - > AOS, Vertex, Min, Max, Turning Point, Roots, Solutions, Zeros, X-intercepts, Domain, Range
- Finding AOS and Vertex Algebraically
 - > Formula! NOT GIVEN
- Vertex Form of a Quadratic Function



- > Using Completing the Square
- Transformations of a Quadratic Function
 - > Rules MUST be memorized
- Quadratic Functions Word Problems (Graphically & Algebraically)
- Quadratic Linear Systems
 - > Graphically, Algebraically & Word Problems
 - > Identifying Number of Solutions

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