

Algebra 2 Unit 2.3 Post-test Worksheet

Modeling with Quadratic Function

- 1) Solve the equations below using Square Roots, Completing the Square, Factoring, or the Quadratic Formula. Use each method only once.

a) $6(x + 2)^2 - 9 = 45$

c) $x^2 = -7x - 4$

b) $x^2 + 3x - 2 = 2$

d) $2x^2 - 12x + 2 = 0$

- 2) A basketball player throws ball. The function for the height of the ball h (in feet) in terms of time t (in seconds) follows: $h(t) = -16t^2 + 20t + 6$.

- a) Find the maximum height the ball reaches.
- b) What height was the ball initially thrown from?
- c) Find the time the ball will hit the ground.

- 3) Dewey Dolphin is performing at the Sea World. He jumps out of the water and follows the path described by the following equation: $h(d) = -2x^2 + d + 20$, where h is the height in feet and d is the distance in feet.

- a) What is the maximum height Dewey reaches?
- b) At what distance will he hit the water?
- c) Graph the equation of the path of Dewey. Clearly label the line of symmetry, the vertex, the y-intercept, and the x-intercept.

- 4) The formula $h(t) = 200t - 26t^2$ represents the height of an object after t seconds when it is projected upward with a velocity of 200 feet per second. Can the object reach a height of 1000 ft? Explain why or why not?

- 5) The Pali basketball team is practicing shooting. Mercer shoots the ball and it follows a path described by the equation: $h(d) = -14d^2 + 17d + 9$, where h is the height in feet and d is the distance in feet.

- a) What is the maximum height the ball reaches?
- b) If the ball does not hit anything, how far away will it land?
- c) Graph the equation of the path of the ball. Clearly label the line of symmetry, the vertex, the y-intercept, and the x-intercept.
- d) Kobe Bryant is practicing free throws shots. He shoots the ball and it follows a path modeled by the equation: $h = -0.25d^2 + 2.5d + 7.5$. Will the ball reach a height of 10 feet?

- 6) A fountain has two water arcs and each follows a path given by the equation below where h is the height of the water arc and d is the distance.

Arc I: $h(d) = -d^2 + 2d + 7$

Arc II: $h(d) = -.25d^2 + 4$

- a) Which arc goes higher?
What height does it reach?
- b) Which arc is wider? Explain how you found the width.
- c) Graph both arcs on the same coordinate axes. Label the line of symmetry, vertex, y-intercept, and the x-intercepts.

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Kathleen Armour

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