t (in seconds)	0.1	0.5	0.9	1.5	1.9	2.3	2.6
$H(t)$ (in meters)	1.4	5.7	8.4	9.6	8.4	5.6	2.5

1. Justin Tucker, the kicker for the Baltimore Ravens, is considered one of the greatest kickers in NFL history. On a recent kickoff, the height of the ball, in meters, was measured for selected times. This data is shown in the table above.

a) Based on this situation and the data presented in the table, would a linear, quadratic, or cubic function be most appropriate to model this data? Give a reason for your answer. quadratic

b) Find the appropriate regression function to model these data. Y= -4.915x^2 + 13.714x + 0.06956

c) Using the model found in part b, what is the predicted height of the football, in meters, at time t = 1.3 seconds?

9.59 meters

t (months)	0	1	13.5	19	26.5	31.5	35
$A(t)$ (in $)	87.58	124.15	164.61	185.97	152.60	122.42	90.98

2. The price of Amazon stock fluctuates over time. On December 6, 2019, one share of Amazon stock was $87.58. The table above gives the price of one share of Amazon stock, in dollars, for selected times t, the number of months after December 6, 2019.

a) Based on the data presented in the table, would a linear, quadratic, or cubic function be most appropriate to model this data? Give a reason for your answer. quadratic

b) Find the appropriate regression function to model these data.
Y= -0.2686x^2 + 9.1615 + 99.97216

c) Using the model found in part b, what is the predicted price of one share of Amazon stock when t = 16 months (April 6, 2021)? 177.79 dollars

d) The actual price for one share of Amazon stock on April 6, 2021 (t = 16) was $168.61. What is the residual for this value? 168.61 - 177.79 = -9.18

Mathematical Models With Applications Answer Key

Yan Bai

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