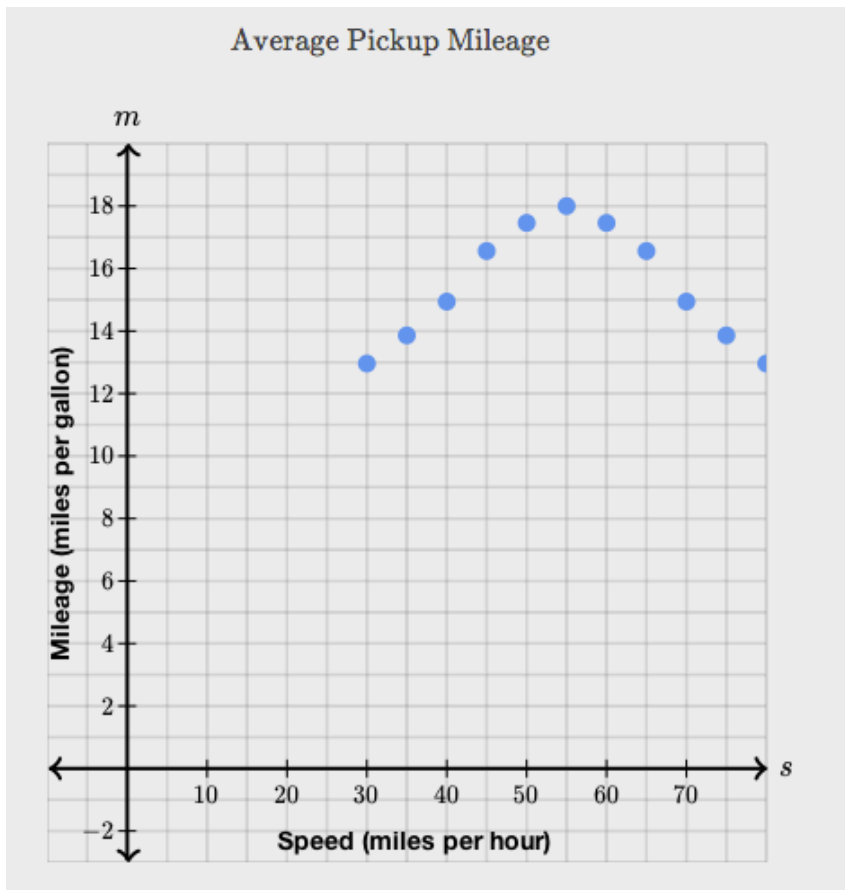


Key features of Graphs

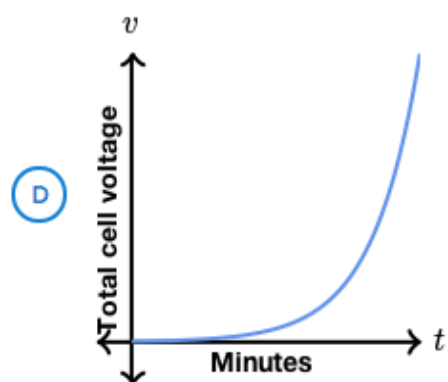
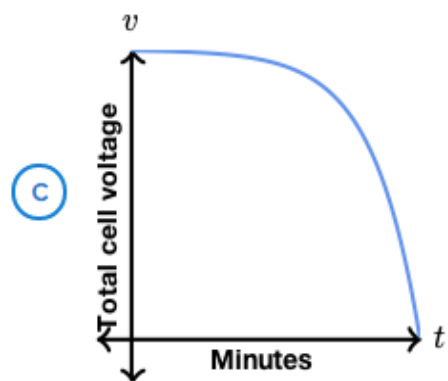
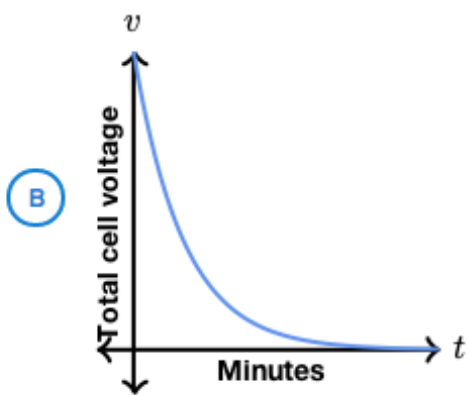
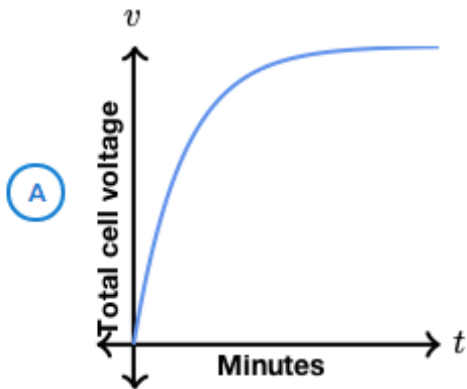


The graph at left in the sm -plane approximates the average mileage, m , in miles per gallon, that Deniz's pickup truck gets when she drives at a speed of s miles per hour. What is the best interpretation of the maximum point on the graph?

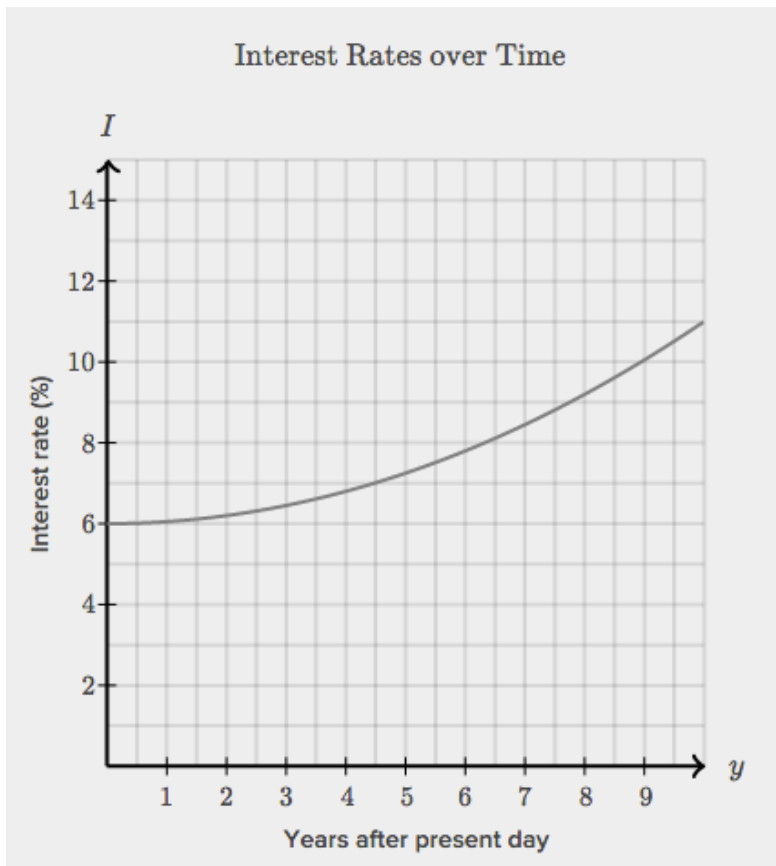
-
- A Deniz's truck gets a maximum mileage of 18 miles per gallon.
-
- B Deniz's truck gets a maximum mileage of 55 miles per gallon.
-
- C Deniz's truck can drive at a maximum speed of 18 miles per hour.
-
- D Deniz's truck can drive at a maximum speed of 55 miles per hour.
-

Key features of Graphs

A laptop battery gains cell voltage as it charges. The battery initially charges quickly, then gradually slows as it approaches its maximum charge. Which of the following graphs in the tv -plane could represent the total cell voltage, v , in a laptop battery after t minutes of charging time?



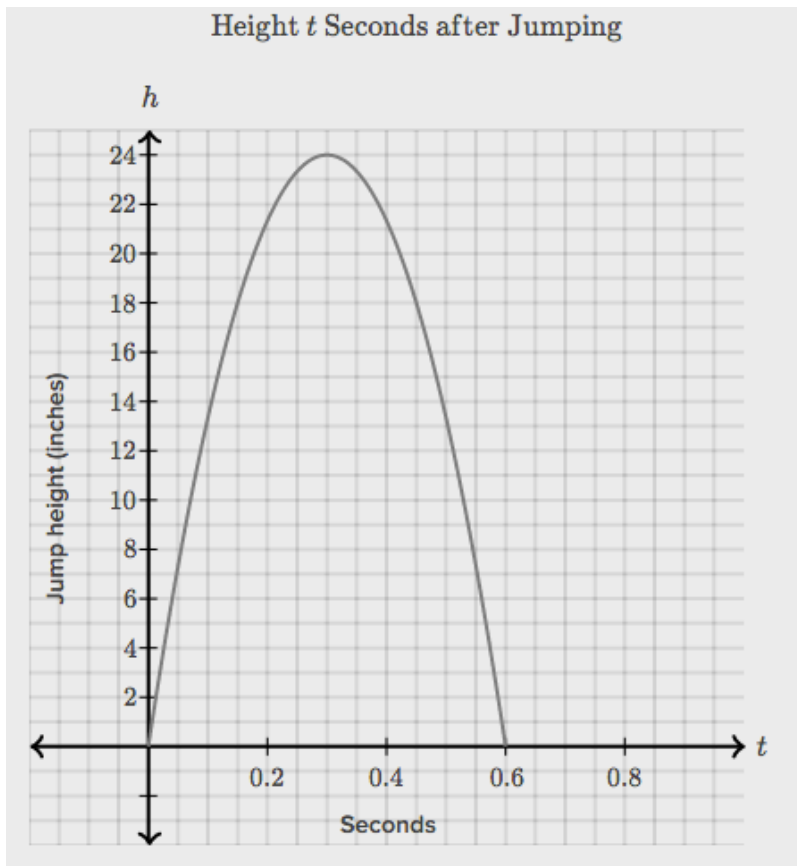
Key features of Graphs



The graph at left in the yI -plane shows the interest rate percentage, I , one can expect for a savings account lasting y years up to a maximum of 10 years. Accounts lasting for less than 1 year are short-lived and accounts lasting for more than 5 years are long-lived. What is the significance of the I -intercept?

-
- A Short-lived accounts have the minimum interest rate of 6 percent.
-
- B Long-lived accounts have the minimum interest rate of 6 percent.
-
- C Long-lived accounts have the maximum interest rate of 11 percent.
-
- D The average increase in interest rates is 0.5 percent per year.
-

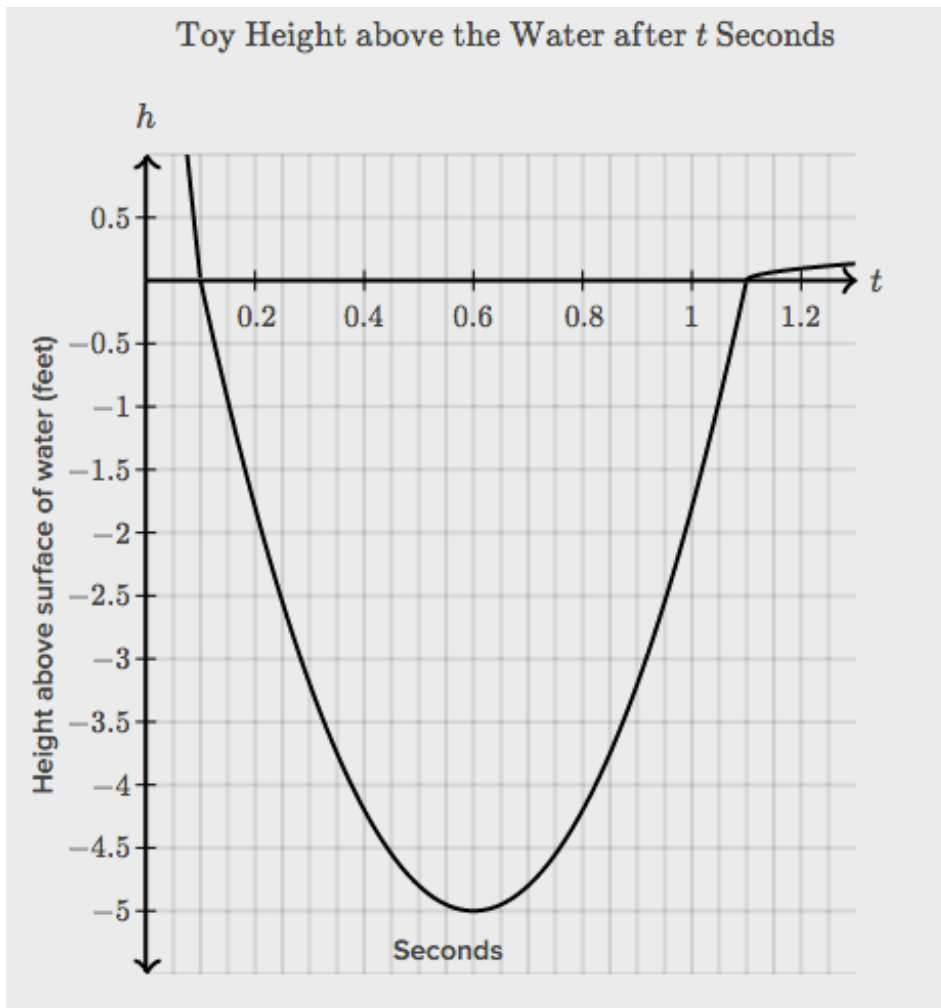
Key features of Graphs



The graph at left in the th -plane shows Brayden's height, h , in inches above the ground, t seconds after he jumps. What is the best interpretation of the t -intercepts of the graph?

-
- A Brayden jumped 0.6 feet into the air.
-
- B Brayden jumped 0.6 times per second.
-
- C Brayden remained in the air for 0.6 seconds.
-
- D Brayden reached the peak of his jump after 0.6 seconds.
-

Key features of Graphs



The graph at left in the th -plane shows the function used to model the height, h , in feet of the top of a pool toy above the surface of the water t seconds after the toy has been thrown toward the water's surface. How many seconds after the toy had been thrown did the pool toy resurface?

(A) 0.1 seconds

(B) 0.6 seconds

(C) 1.1 seconds

(D) 5 seconds
