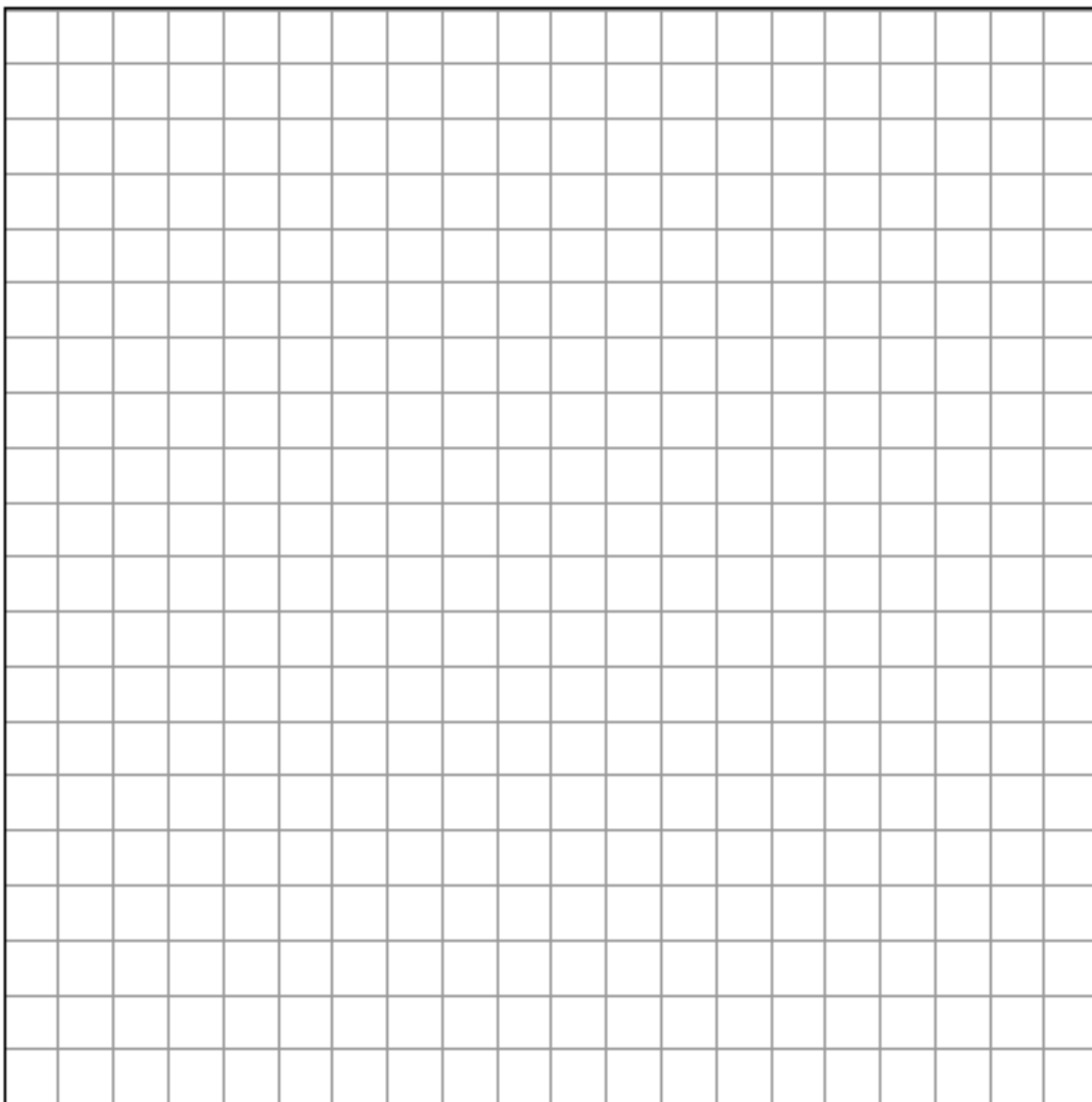


Graphing Functions

1. The price of a stock, $A(x)$, over a 12-month period decreased and then increased according to the equation $A(x) = 0.75x^2 - 6x + 20$, where x equals the number of months. The price of another stock, $B(x)$, increased according to the equation $B(x) = 2.75x + 1.50$ over the same 12-month period.
 - a. Graph and label both equations on the accompanying grid below.
 - b. State all prices, *to the nearest dollar*, when both stock values were the same.



2. A small rocket is launched from a height of 72 feet. The height of the rocket in feet, h , is represented by the equation $h(t) = -16t^2 + 64t + 72$, where t = time, in seconds.
- a. Graph and label the equation on the accompanying grid below.
- b. Use your graph to determine the number of seconds that the rocket will remain at or above 100 feet from the ground.

