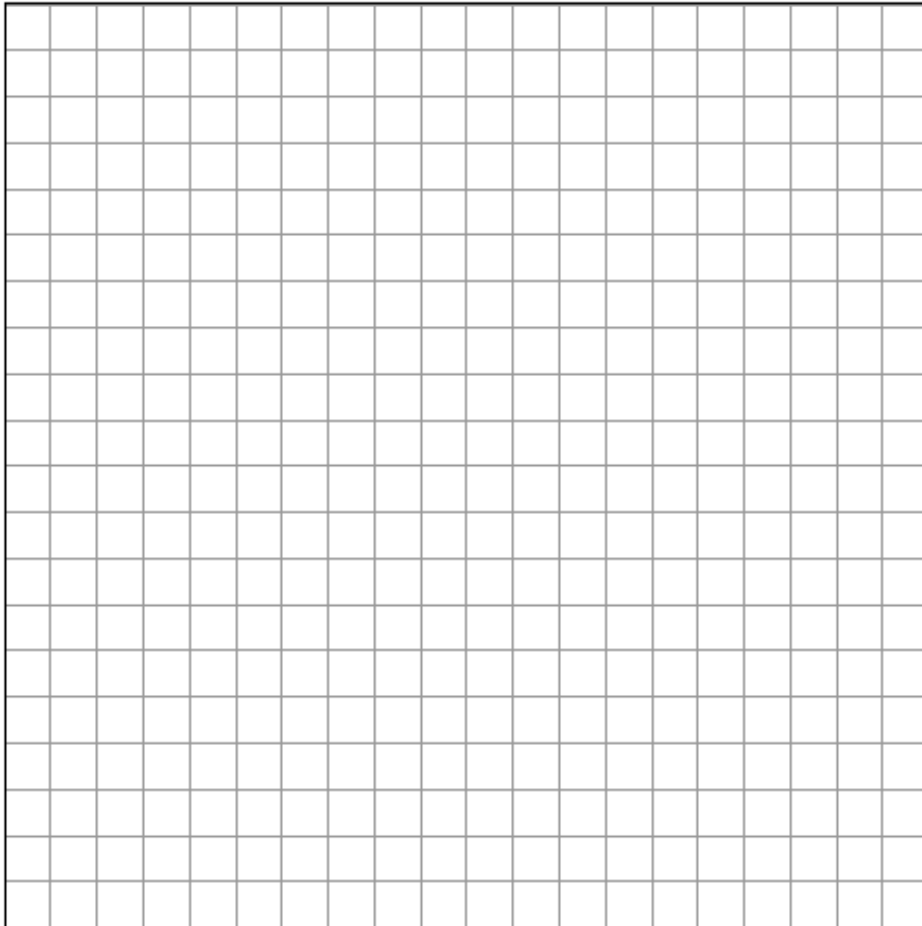


M\$5 Classwork 6

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.

