

Name: _____ Date: _____

1. $f(2) = \underline{\hspace{2cm}}$ $f(6) = \underline{\hspace{2cm}}$ $f(\underline{\hspace{2cm}}) = 42$

Time (years)	1	2	3	4	5	6
Height(in.)	27	35	37	42	45	49

2. For $f(x) = -6x - 2$,

$f(2) = \underline{\hspace{2cm}}$ $f\left(\frac{1}{2}\right) = \underline{\hspace{2cm}}$

3. You and a friend are trying to decide which theater to go to for a Friday night movie. AMC charges \$7 for the movie ticket and \$3 per food item. Regal's prices are represented by the table.

x	f(x)
0	4
1	8
2	12
3	16
4	20

Complete an equation for the two. Compare their slopes and initial cost.

AMC: $g(x) = \underline{\hspace{2cm}}x + \underline{\hspace{2cm}}$ **Regal:** $f(x) = 4x + \underline{\hspace{2cm}}$

What is $g(0)$? $\underline{\hspace{2cm}}$ What is $f(0)$? $\underline{\hspace{2cm}}$

What is $g(2)$? $\underline{\hspace{2cm}}$ What is $f(2)$? $\underline{\hspace{2cm}}$

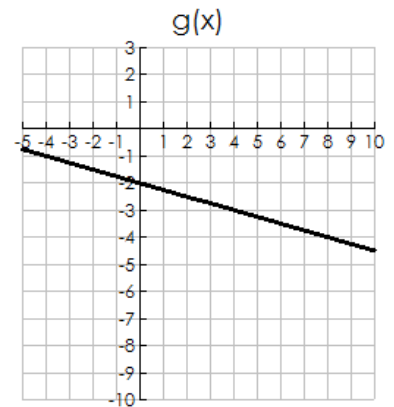
Which theater is cheaper if you want to see the movie and also get a drink and popcorn?

4. For the following two functions, write the equations of each and complete the chart to compare them.

$f(0) = \underline{\hspace{2cm}}$

$g(0) = \underline{\hspace{2cm}}$

x	f(x)
-3	11
-1	7
0	5
1	3
3	-1
5	-5



The answers above can also be written:

($\underline{\hspace{2cm}}$, $\underline{\hspace{2cm}}$) and ($\underline{\hspace{2cm}}$, $\underline{\hspace{2cm}}$).

The above points are also called

$\underline{\hspace{2cm}}$ -intercepts.

