Functions 1b – Function Representations **Name _____**
HW#4 **Per _____ Date _____**

REPORTING SHEET

- Cut out the equations, tables, descriptions and graphs on the following pages so that you have a total of 20 "cards" with one representation on each card. Then, match the appropriate representations and glue or tape the cards in their groups to this paper.

Description: **Table:** **Equation:** **Graph:**

Description: **Table:** **Equation:** **Graph:**

E1

$f(x) = x^2$

E2

$f(x) = 5x$

E3

$f(x) = -16x^2 + 50x + 3$

E4

$f(x) = 700 + 3x$

E5

$f(x) = 2x - 30$

T1

x	f(x)
0	3
0.5	24
1.0	37
1.5	42
2.0	39
2.5	28
3.0	9

T2

x	f(x)
0	0
1	1
2	4
3	9
4	16
5	25
6	36

T3

x	f(x)
0	700
10	730
20	760
30	790
40	820
50	850
60	880

T4

x	f(x)
0	0
1	5
2	10
3	15
4	20
5	25
6	30

T5

x	f(x)
0	-30
5	-20
10	-10
15	0
20	10
25	20
30	30

D1

This function represents the number of Instagram followers you have at the end of each day, where x = 0 represents Jan 1, 2014, the number of followers you have at the end of Jan 1, 2014 is 700, and you gain 3 followers every day thereafter.

D2

This function represents the height of a football x seconds after it is kicked, until it hits the ground.

D3

This function represents the area of a square with side length x.

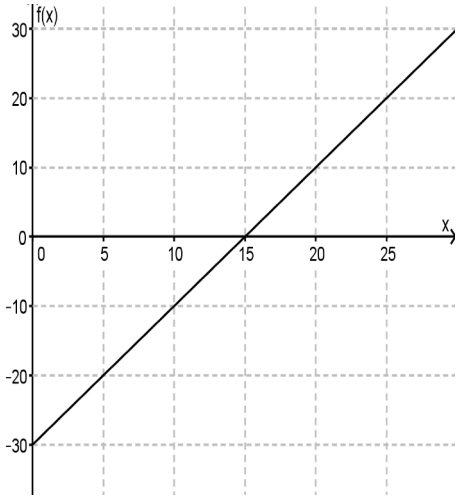
D4

This function represents the volume of water that has leaked out of a hole in a swimming pool at a rate of 5 gallons/hour, where x = 0 represents the time the water began leaking out.

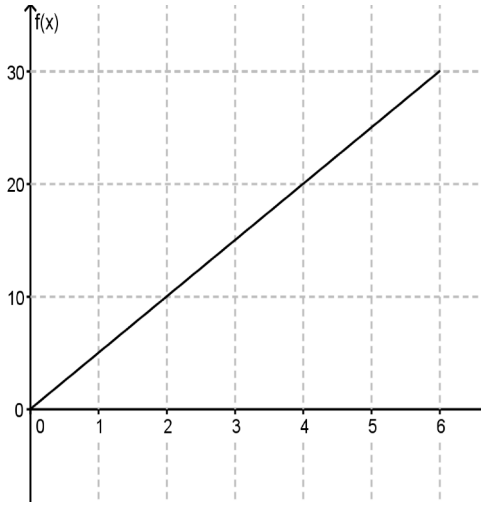
D5

This function represents the profit you make on a particular day from selling x mangos for $2 each at the farmer's market, where you must first pay a $30 vendor fee for the booth.

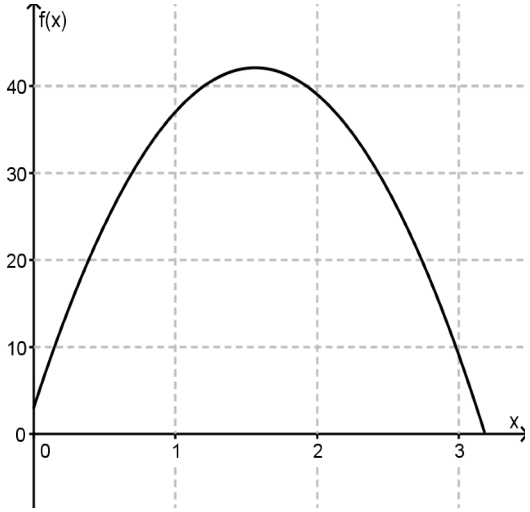
G1


f(x)
30
20
10
0
-10
-20
-30
x
0
5
10
15
20
25

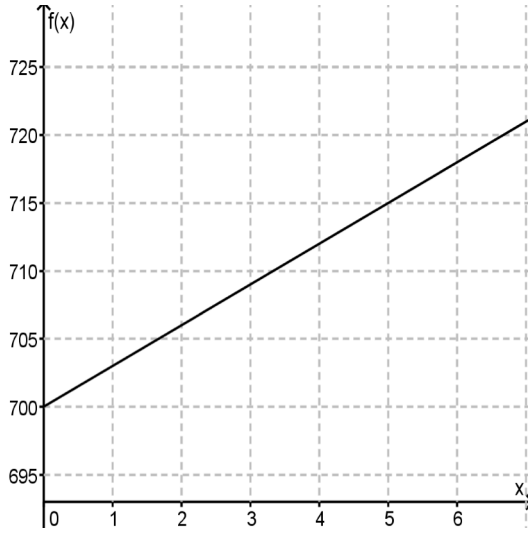
G2


f(x)
30
20
10
0
0
1
2
3
4
5
6

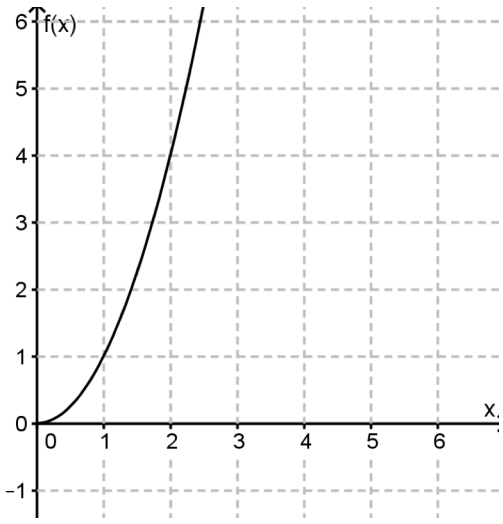
G3


f(x)
40
30
20
10
0
x
0
1
2
3

G4


f(x)
725
720
715
710
705
700
695
x
0
1
2
3
4
5
6

G5


f(x)
6
5
4
3
2
1
0
-1
x
0
1
2
3
4
5
6