Algebra 1: Unit 4: Linear Functions Name: _____

4.1.4 Matching Motion Representations Date: _____ Partners: _____

1. Caroline started 5 feet from the motion detector and walked away at a constant rate of 1 foot per second.

Graph: Function: Table:

Rate _____

Start Distance _____

2. Kevin started 5 feet from the motion detector and walked toward it at a constant rate of 1 foot every 2 seconds.

Graph: Function: Table:

Rate _____

Start Distance _____

3. Carlos started in front of the motion detector and walked away at a constant rate of 5 feet per second.

Graph:

Function:

Table:

Rate _____

Start Distance _____

4. Kendra started 5 feet from the motion detector and didn't move.

Graph:

Function:

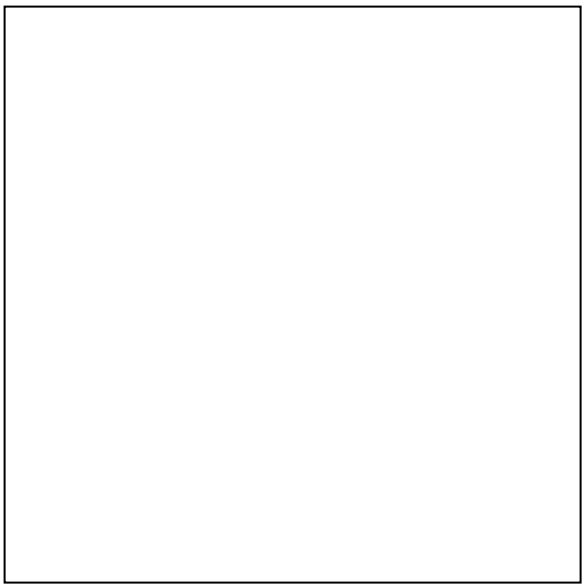
Table:

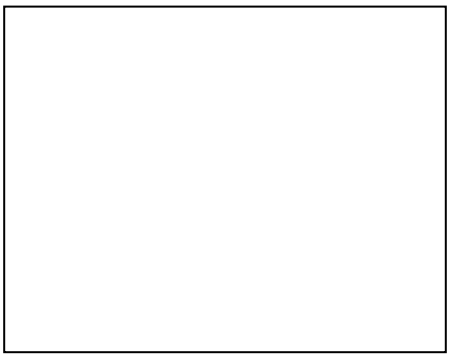
Rate _____

Start Distance _____

5. Kenny started 20 feet from the motion detector and walked toward it at a constant rate of 5 feet per sec.

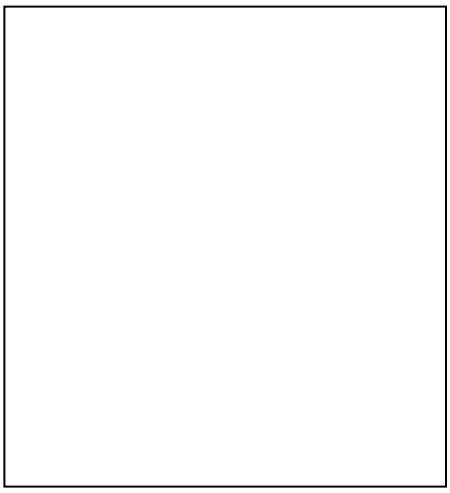
Graph: Function: Table:





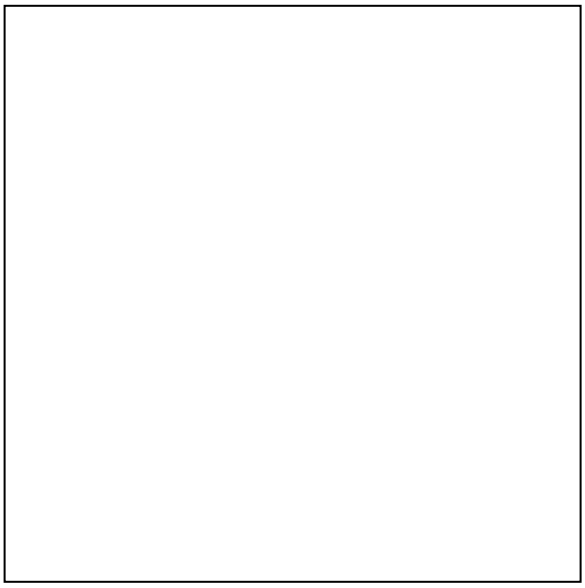
Rate _____

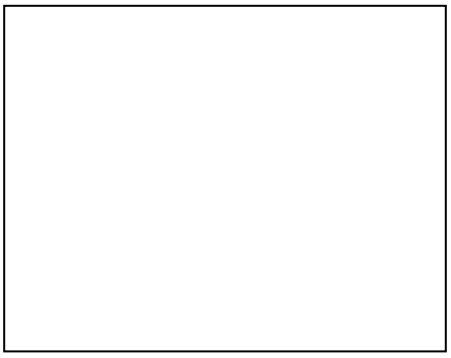
Start Distance _____



6. Karen started 1 foot from the motion detector and walked away from it at a constant 3 feet per second.

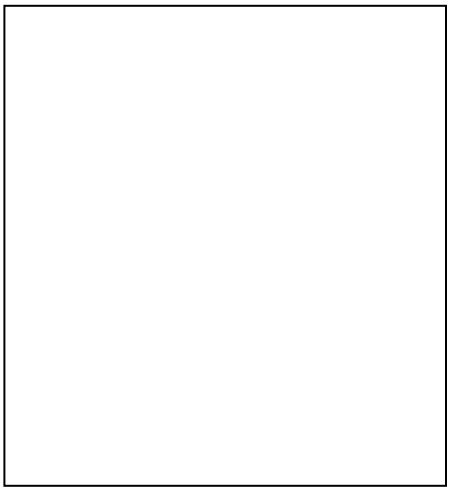
Graph: Function: Table:





Rate _____

Start Distance _____



$f(x)=5+1x$

x is time in seconds

f(x) is distance in feet

$f(x)=20-5x$

x is time in seconds

f(x) is distance in feet

$f(x)=5+0x$

x is time in seconds

f(x) is distance in feet

$f(x)=5-\frac{1}{2}x$

x is time in seconds

f(x) is distance in feet

$f(x)=1+3x$

x is time in seconds

f(x) is distance in feet

$f(x)=0+5x$

x is time in seconds

f(x) is distance in feet

$f(x)=5+1x$

x is time in seconds

f(x) is distance in feet

$f(x)=20-5x$

x is time in seconds

f(x) is distance in feet

$f(x)=5+0x$

x is time in seconds

f(x) is distance in feet

$f(x)=5-\frac{1}{2}x$

x is time in seconds

f(x) is distance in feet

$f(x)=1+3x$

x is time in seconds

f(x) is distance in feet

$f(x)=0+5x$

x is time in seconds

f(x) is distance in feet

x, in sec	f(x), in ft
0	5
1	6
2	7
3	8
4	9

x, in sec	f(x), in ft
0	5
1	4.5
2	4
3	3.5
4	3

x, in sec	f(x), in ft
0	0
1	5
2	10
3	15
4	20

x, in sec	f(x), in ft
0	5
1	5
2	5
3	5
4	5

x, in sec	f(x), in ft
0	20
1	15
2	10
3	5
4	0

x, in sec	f(x), in ft
0	1
1	4
2	7
3	10
4	13

x, in sec	f(x), in ft
0	5
1	6
2	7
3	8
4	9

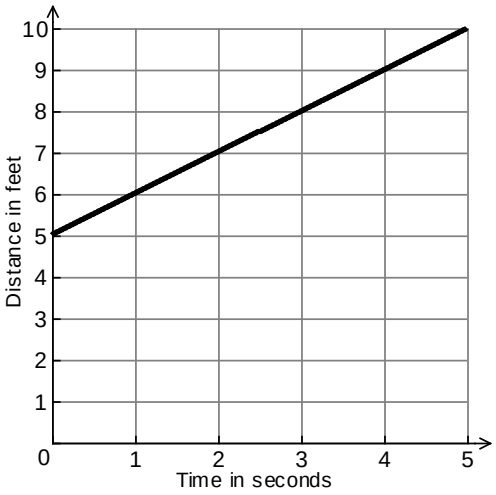
x, in sec	f(x), in ft
0	5
1	4.5
2	4
3	3.5
4	3

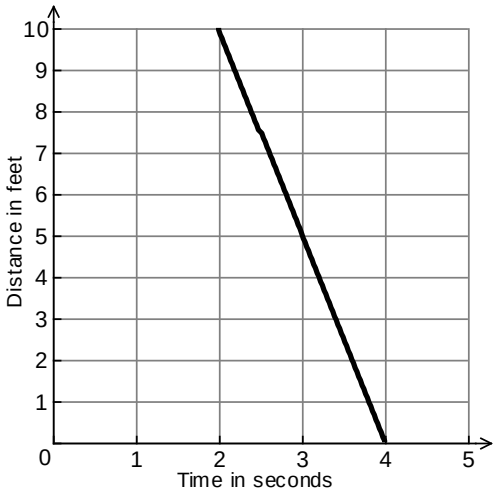
x, in sec	f(x), in ft
0	0
1	5
2	10
3	15
4	20

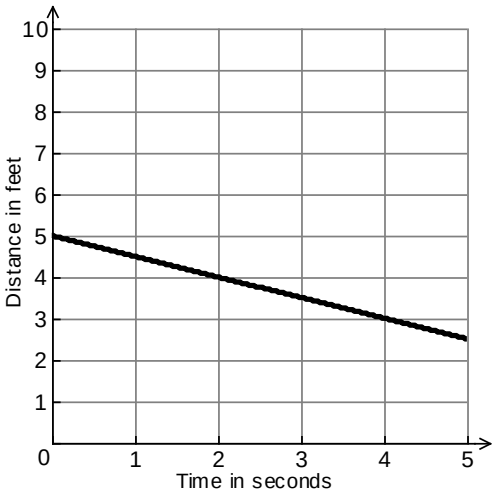
x, in sec	f(x), in ft
0	5
1	5
2	5
3	5
4	5

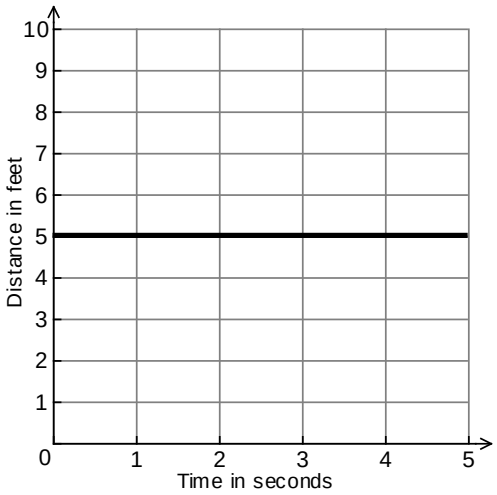
x, in sec	f(x), in ft
0	20
1	15
2	10
3	5
4	0

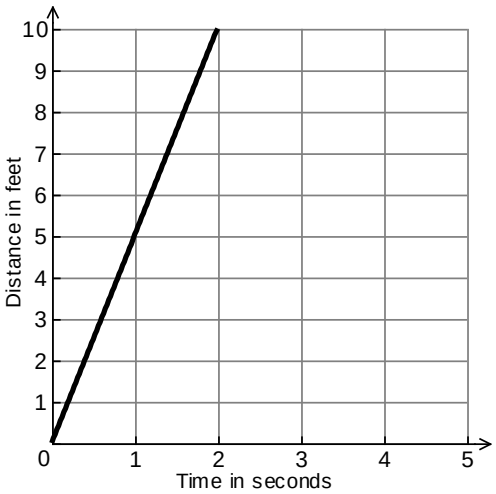
x, in sec	f(x), in ft
0	1
1	4
2	7
3	10
4	13

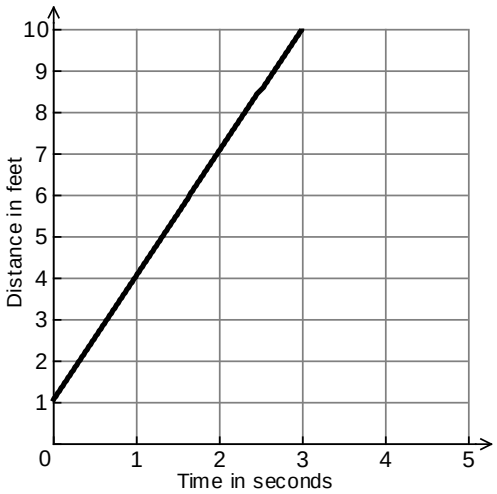

Distance in feet
Time in seconds
0 1 2 3 4 5
1 2 3 4 5 6 7 8 9 10


Distance in feet
Time in seconds
0 1 2 3 4 5
1 2 3 4 5 6 7 8 9 10


Distance in feet
Time in seconds
0 1 2 3 4 5
1 2 3 4 5 6 7 8 9 10


Distance in feet
Time in seconds
0 1 2 3 4 5
1 2 3 4 5 6 7 8 9 10


Distance in feet
Time in seconds
0 1 2 3 4 5
1 2 3 4 5 6 7 8 9 10


Distance in feet
Time in seconds
0 1 2 3 4 5
1 2 3 4 5 6 7 8 9 10