

Name _____

Date _____

Comparing Functions in Different Formats - Independent Practice Worksheet

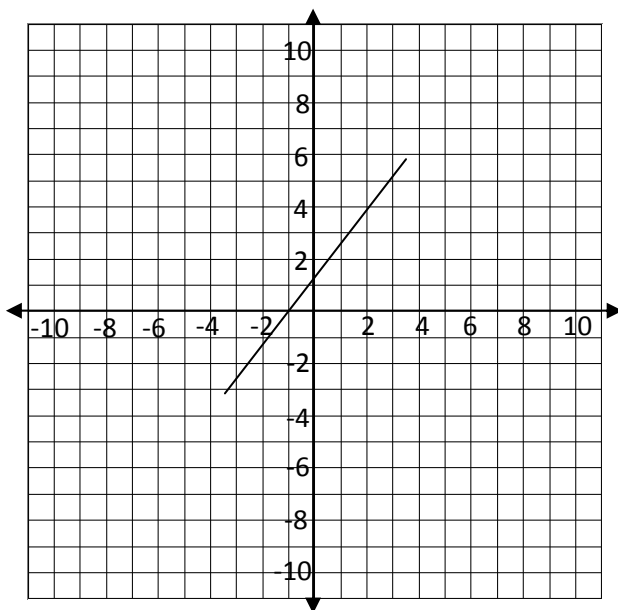
Complete all the problems.

1) Two functions are represented in different ways.

Function 1: The input-output table shows the x- and y-values of a quadratic function.

x	y
1	1
3	9
4	16
5	25
6	36
7	49
8	64

Function 2: The graph of a linear function is shown.

From the two functions, which function grows faster for large positive values of x ?

Name _____

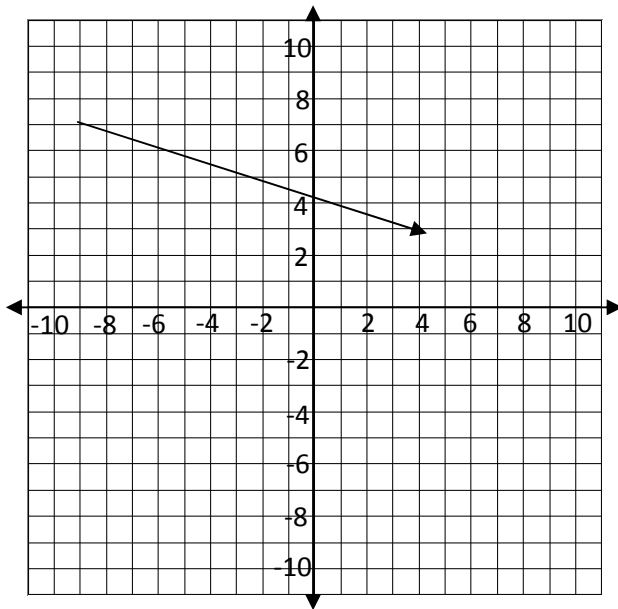
Date _____

2) Two functions are represented in different ways.

Function 1: The input-output table shows the x- and y-values of a quadratic function.

x	y
0	0
1	2
2	4
4	16
6	36
7	49
10	100

Function 2: The graph of a linear function is shown.



Which of the two functions show no growth at all?



Name _____

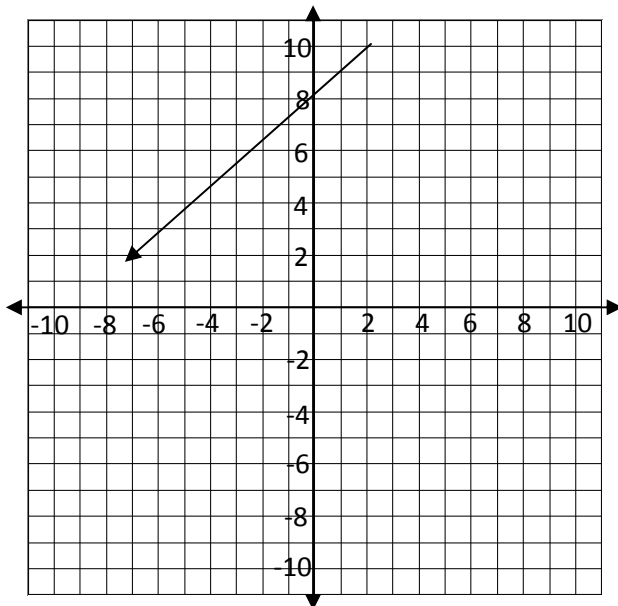
Date _____

3) Two functions are represented in different ways.

Function 1: The input-output table shows the x- and y-values of a quadratic function.

x	y
2	8
3	27
4	64
5	125
6	216
7	343
8	512

Function 2: The graph of a linear function is shown.



Which of the two functions grows at a faster rate?



Name _____

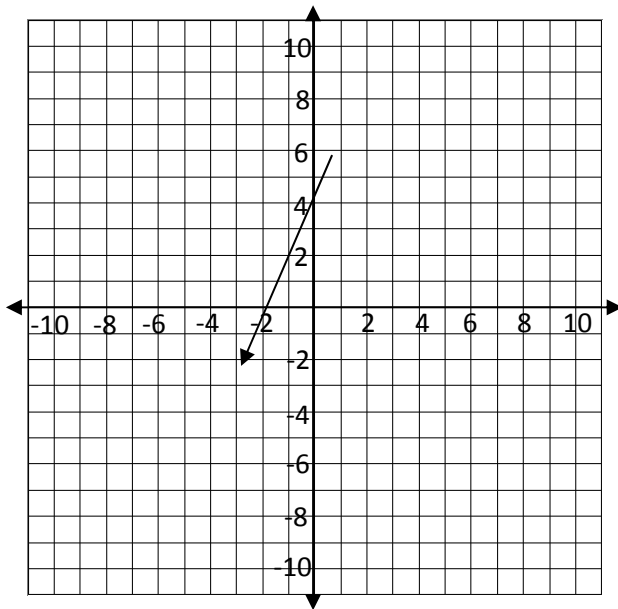
Date _____

4) Two functions are represented in different ways.

Function 1: The input-output table shows the x- and y-values of a quadratic function.

x	y
2	7
4	9
5	10
6	11
7	12
8	13
9	14

Function 2: The graph of a linear function is shown.



Which of the two functions grow at a slower rate.



Name _____

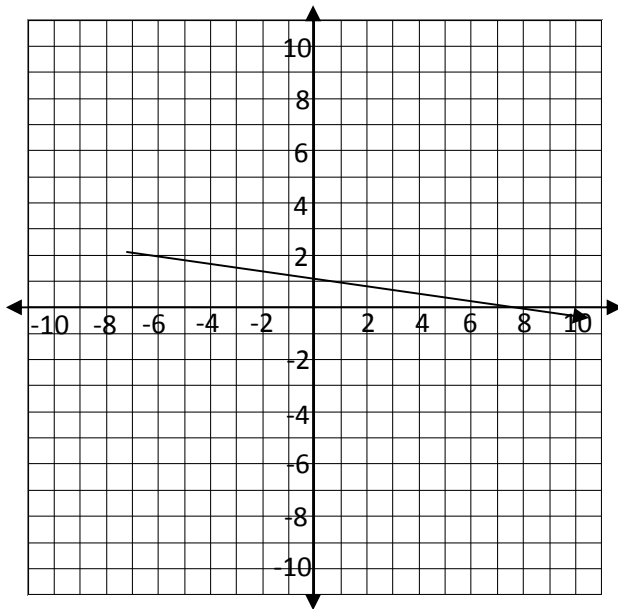
Date _____

5) Two functions are represented in different ways.

Function 1: The input-output table shows the x- and y-values of a quadratic function.

x	y
-1	1
0	0
1	1
2	4
3	9
4	16
5	25

Function 2: The graph of a linear function is shown.



Which of the two functions show a decline in growth?



Name _____

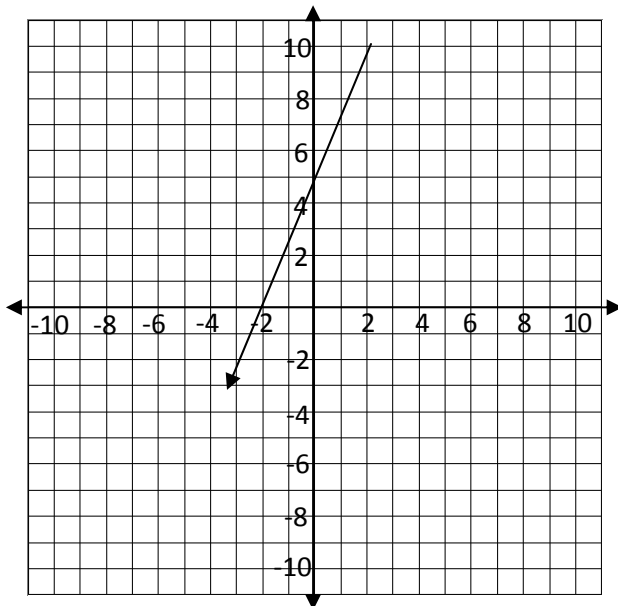
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6) Two functions are represented in different ways.

Function 1: The input-output table shows the x - and y -values of a quadratic function.

x	y
4	8
5	10
6	12
7	14
8	16
9	18
10	20

Function 2: The graph of a linear function is shown.



From the two functions, which function grows faster for large positive values of x ?



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For problems 7 – 8 indicate which of the two functions you would expect to grow at a faster rate. Circle the function name.

Function X is quadratic. Function Z is linear. Function Q is exponential.

7) Function Z or Function X.

8) Function Q or Function Z.

9) Two functions are represented in different ways. Which function grows at a faster rate?

Function 1:

x	y
5	25
6	36
7	49
8	64
9	81
10	100
11	121

Function 2:

