

# Functions: Task Cards 8.F.2

20 Task Cards, Recording Sheet, Answer Sheet

**8.F.2**

Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions)

**13** Determine which function has the greatest y-intercept:

Function A

Function B

x	0	4	8	12
y	0	1	2	3

Function C

**14** Determine which function has the greatest y-intercept:

Function A

Function B

x	-1	1	3	5
y	-4	0	4	8

Function C

$y = 3x$

**17** Order the functions in order from the least to greatest rate of change:

Function A

Function B

x	3	6	9	12
y	0	1	2	3

Function C

$y = \frac{1}{4}x - 1$

8.F.2

**18** Order the functions in order from the least to greatest rate of change:

Function A

Function B

x	-4	-2	0	2
y	0	10	20	30

Function C

$y' = x + 5$

8.F.2

**19** Order the functions in order from the least to greatest rate of change:

Function A

Function B

x	0	4	8	12
y	0	1	2	3

Function C

$y = -\frac{1}{5}x + 5$

8.F.2

**20** Order the functions in order from the least to greatest rate of change:

Function A

Function B

x	0	4	8	12
y	0	1	2	3

Function C

$y = -\frac{1}{5}x + 5$

8.F.2



Created by:  
Math in the Midwest

## 8.F.2

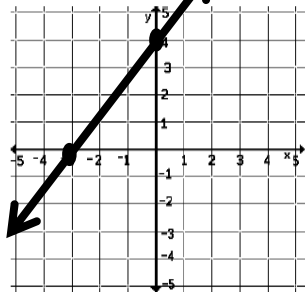


Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions)

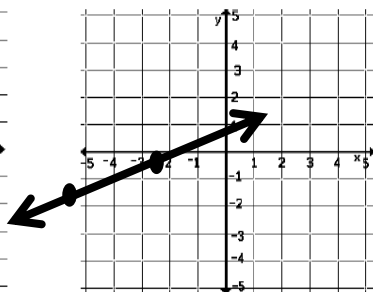
1

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

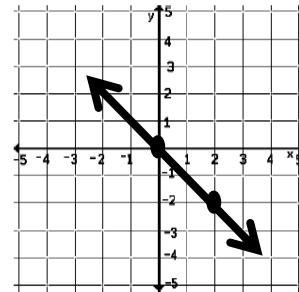


8.F.2

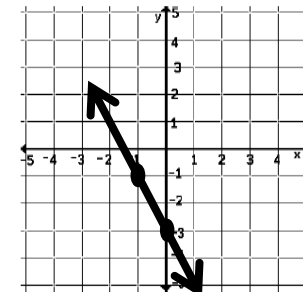
2

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

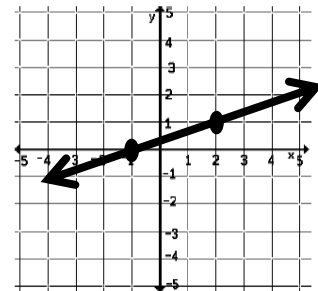


8.F.2

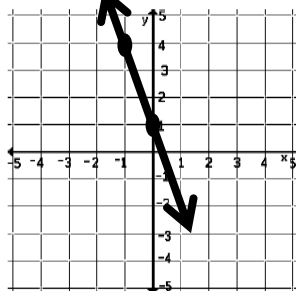
3

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

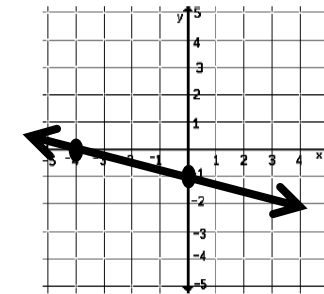


8.F.2

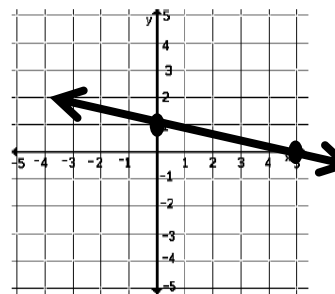
4

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B



8.F.2

5

Examine each set of functions and determine which has the greater rate of change.

Function A

x	0	1	2	3
y	5	10	15	20

Function B

x	0	1	2	3
y	0	10	20	30

8.F.2

6

Examine each set of functions and determine which has the greater rate of change.

Function A

x	-2	-1	0	1
y	-4	-2	0	2

Function B

x	4	6	8	10
y	4	8	12	16

8.F.2

7

Examine each set of functions and determine which has the greater rate of change.

Function A

x	-5	0	5	10
y	-2	0	2	4

Function B

x	0	1	2	3
y	-2	-1	0	1

8.F.2

8

Examine each set of functions and determine which has the greater rate of change.

Function A

x	3	5	7	9
y	0	10	20	30

Function B

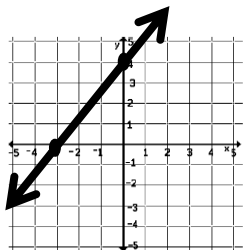
x	0	5	10	15
y	1	2	3	4

8.F.2

9

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	0	1	2	3
y	0	10	20	30

Function C

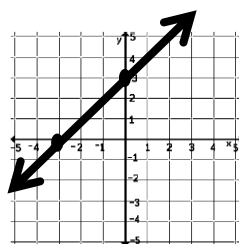
$$y = -6x + 3$$

8.F.2

10

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	-1	1	3	5
y	0	4	8	12

Function C

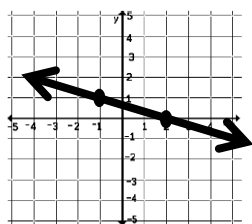
$$y = 4x - 1$$

8.F.2

11

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	0	4	8	12
y	0	1	2	3

Function C

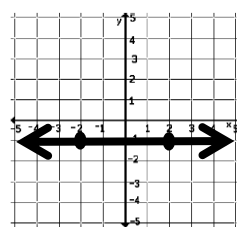
$$y = -\frac{1}{5}x + 5$$

8.F.2

12

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	2	4	6	8
y	2	3	4	5

Function C

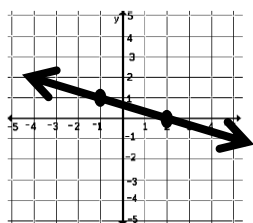
$$y = 2x - 1$$

8.F.2

13

Determine which function has the greatest y – intercept:

Function A



Function B

x	0	4	8	12
y	0	1	2	3

Function C

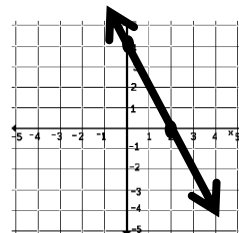
$$y = -\frac{1}{5}x + 5$$

8.F.2

14

Determine which function has the greatest y – intercept:

Function A



Function B

x	-1	1	3	5
y	-4	0	4	8

Function C

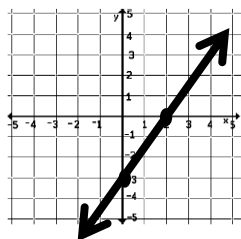
$$y = 3x$$

8.F.2

15

Determine which function has the greatest y – intercept:

Function A



Function B

x	0	3	5	7
y	4	8	12	16

Function C

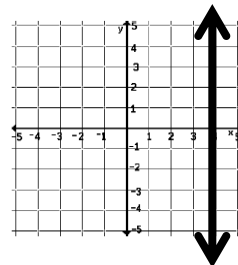
$$y = x + 2$$

8.F.2

16

Determine which function has the greatest y – intercept:

Function A



Function B

x	-1	0	1	2
y	0	4	5	6

Function C

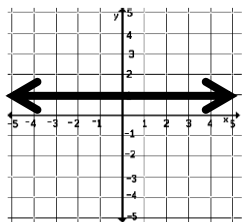
$$y = -3x + 6$$

8.F.2

17

Order the functions in order from the least to greatest rate of change:

Function A



Function B

x	3	6	9	12
y	0	1	2	3

Function C

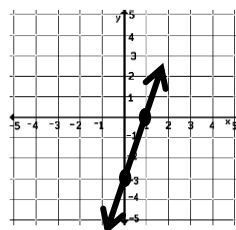
$$y = \frac{1}{4}x - 1$$

8.F.2

18

Order the functions in order from the least to greatest rate of change:

Function A



Function B

x	-4	-2	0	2
y	0	10	20	30

Function C

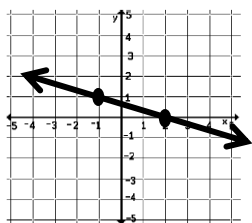
$$y = x + 5$$

8.F.2

19

Order the functions in order from the least to greatest rate of change:

Function A



Function B

x	0	4	8	12
y	0	1	2	3

Function C

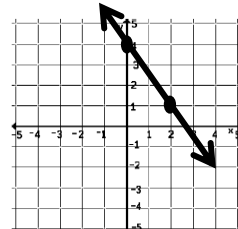
$$y = -\frac{1}{5}x + 5$$

8.F.2

20

Order the functions in order from the least to greatest rate of change:

Function A



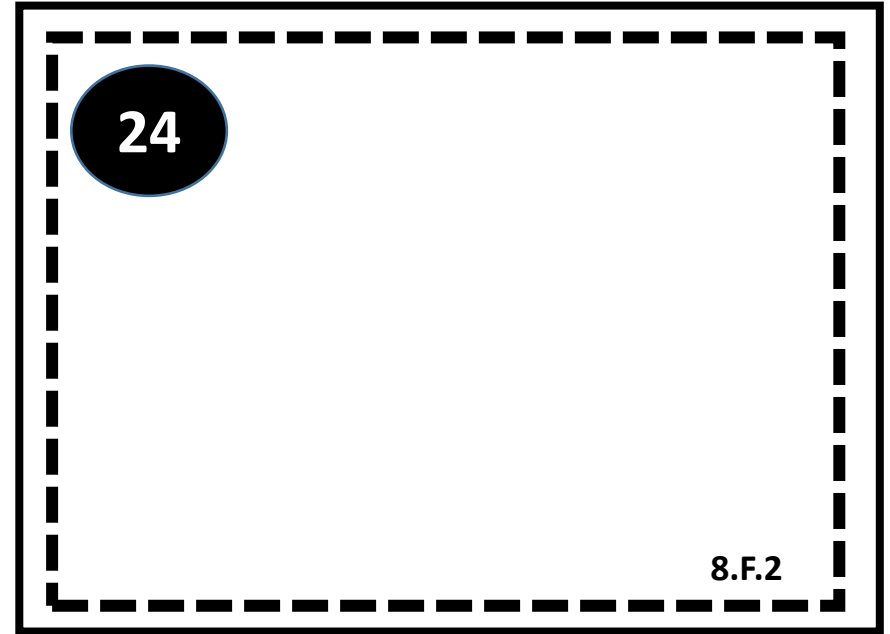
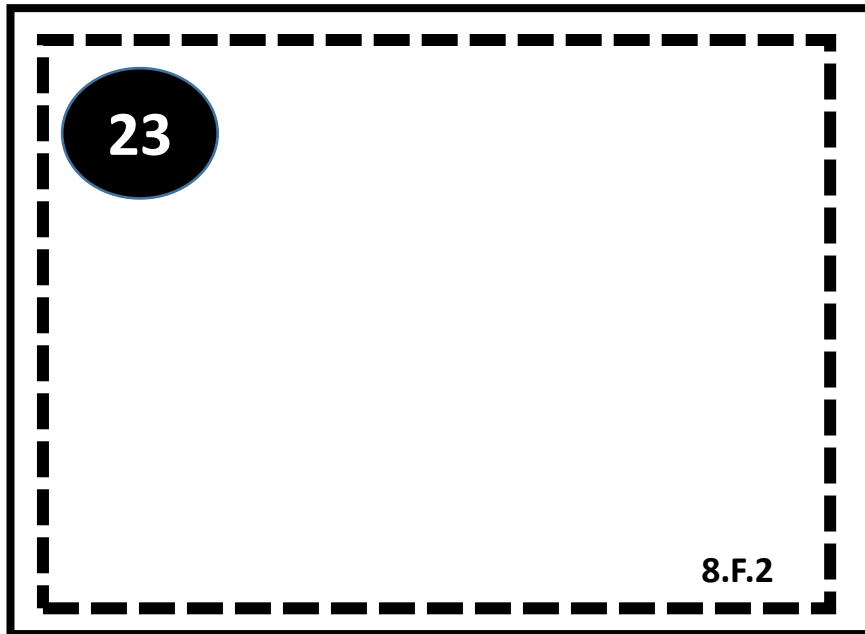
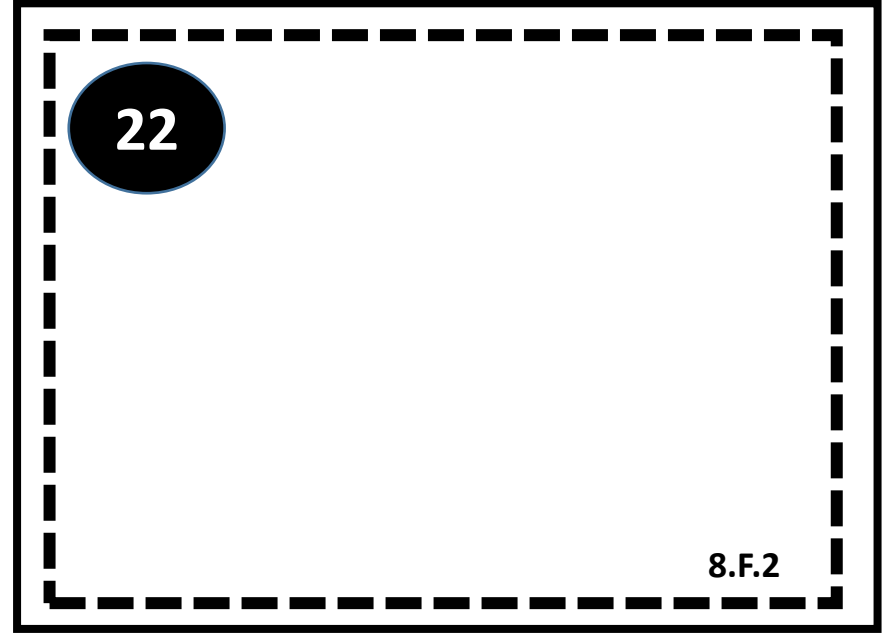
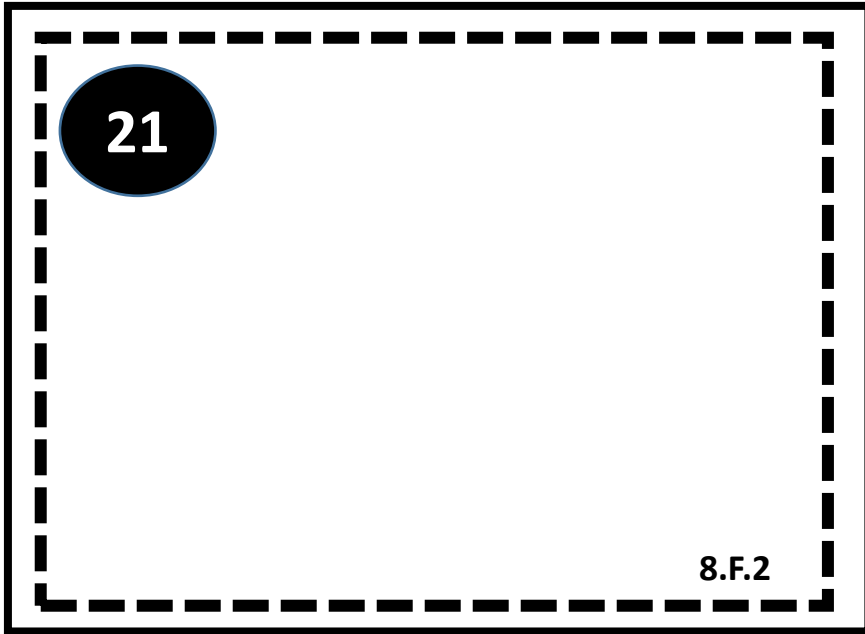
Function B

x	-3	-2	-1	0
y	6	4	2	0

Function C

$$y = 3x - 4$$

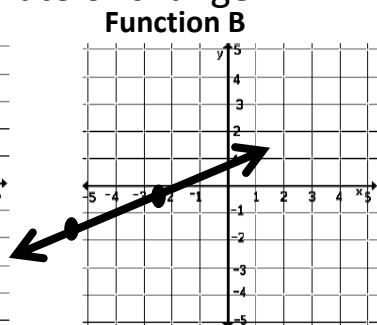
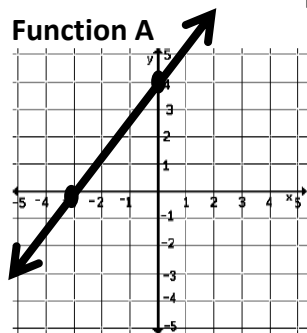
8.F.2





1

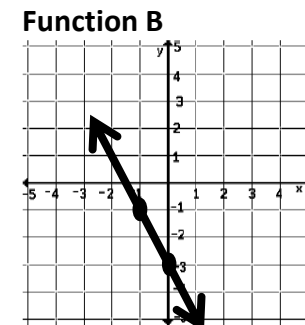
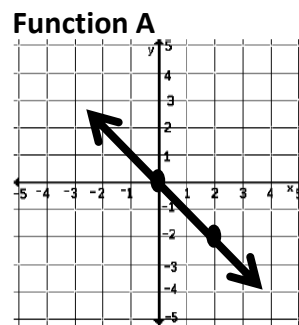
Examine each set of functions and determine which has the greater rate of change.



8.F.2

2

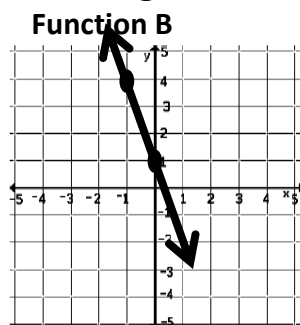
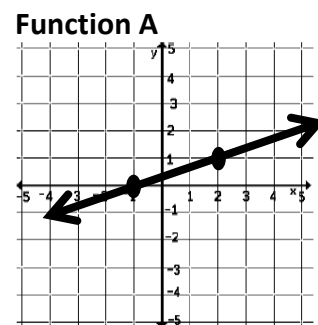
Examine each set of functions and determine which has the greater rate of change.



8.F.2

3

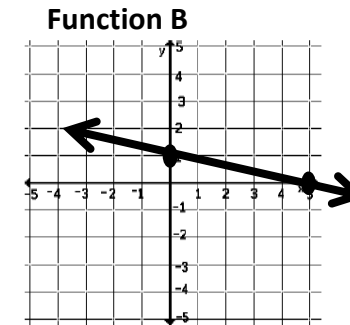
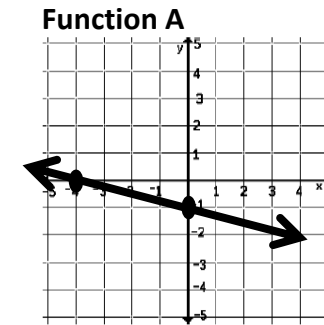
Examine each set of functions and determine which has the greater rate of change.



8.F.2

4

Examine each set of functions and determine which has the greater rate of change.



8.F.2

5

Examine each set of functions and determine which has the greater rate of change.

Function A

x	0	1	2	3
y	5	10	15	20

Function B

x	0	1	2	3
y	0	10	20	30

8.F.2

6

Examine each set of functions and determine which has the greater rate of change.

Function A

x	-2	-1	0	1
y	-4	-2	0	2

Function B

x	4	6	8	10
y	4	8	12	16

8.F.2

7

Examine each set of functions and determine which has the greater rate of change.

Function A

x	-5	0	5	10
y	-2	0	2	4

Function B

x	0	1	2	3
y	-2	-1	0	1

8.F.2

8

Examine each set of functions and determine which has the greater rate of change.

Function A

x	3	5	7	9
y	0	10	20	30

Function B

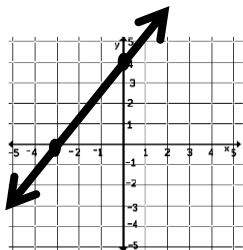
x	0	5	10	15
y	1	2	3	4

8.F.2

9

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	0	1	2	3
y	0	10	20	30

Function C

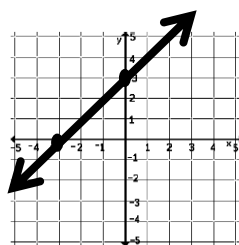
$$y = -6x + 3$$

8.F.2

10

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	-1	1	3	5
y	0	4	8	12

Function C

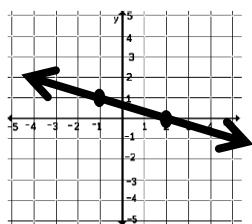
$$y = 4x - 1$$

8.F.2

11

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	0	4	8	12
y	0	1	2	3

Function C

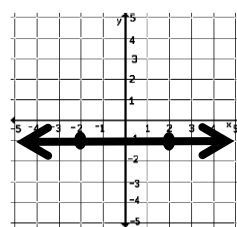
$$y = -\frac{1}{5}x + 5$$

8.F.2

12

Examine each set of functions and determine which has the greater rate of change.

Function A



Function B

x	2	4	6	8
y	2	3	4	5

Function c

$$y = 2x - 1$$

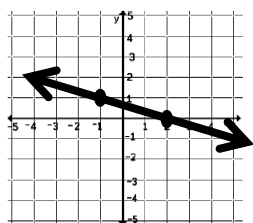
8.F.2



13

Determine which function has the greatest y – intercept:

Function A



Function B

x	0	4	8	12
y	0	1	2	3

Function C

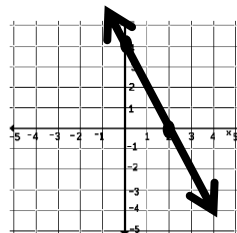
$$y = -\frac{1}{5}x + 5$$

8.F.2

14

Determine which function has the greatest y – intercept:

Function A



Function B

x	-1	1	3	5
y	-4	0	4	8

Function C

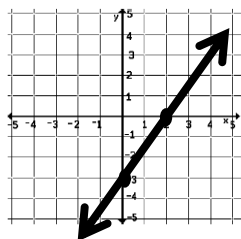
$$y = 3x$$

8.F.2

15

Determine which function has the greatest y – intercept:

Function A



Function B

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y	4	8	12	16

Function C

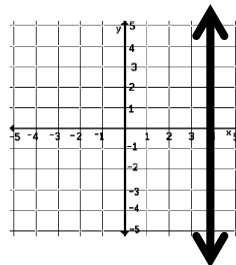
$$y = x + 2$$

8.F.2

16

Determine which function has the greatest y – intercept:

Function A



Function B

x	-1	0	1	2
y	0	4	5	6

Function C

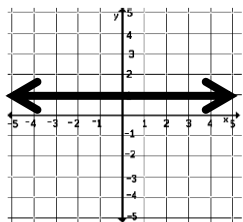
$$y = -3x + 6$$

8.F.2

17

Order the functions in order from the least to greatest rate of change:

Function A



Function B

x	3	6	9	12
y	0	1	2	3

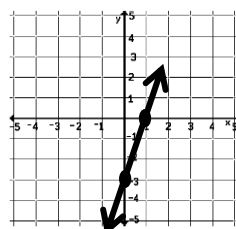
Function C  
 $y = \frac{1}{4}x - 1$

8.F.2

18

Order the functions in order from the least to greatest rate of change:

Function A



Function B

x	-4	-2	0	2
y	0	10	20	30

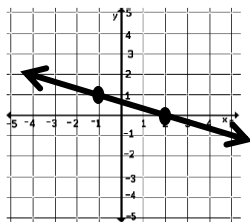
Function C  
 $y = x + 5$

8.F.2

19

Order the functions in order from the least to greatest rate of change:

Function A



Function B

x	0	4	8	12
y	0	1	2	3

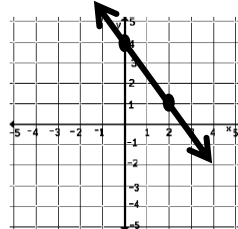
Function C  
 $y = -\frac{1}{5}x + 5$

8.F.2

20

Order the functions in order from the least to greatest rate of change:

Function A



Function B

x	-3	-2	-1	0
y	6	4	2	0

Function C  
 $y = 3x - 4$

8.F.2

21

8.F.2

22

8.F.2

23

8.F.2

24

8.F.2

Name \_\_\_\_\_

Hour \_\_\_\_\_

## 8.F.2 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name \_\_\_\_\_

Hour \_\_\_\_\_

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.



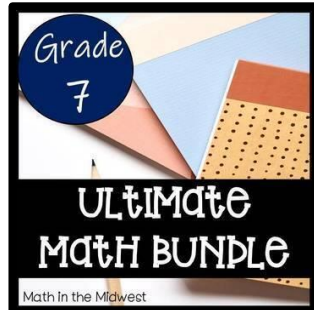
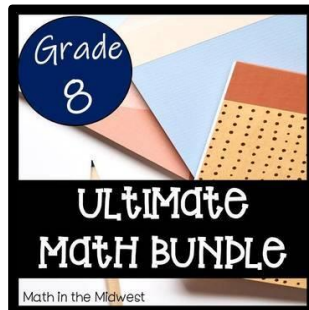
# Answer Key

Number	Answer
1	Function A
2	Function B
3	Function B
4	Function A
5	Function B
6	Same Both Slope of 2
7	Function B
8	Function A
9	Function B
10	Function C

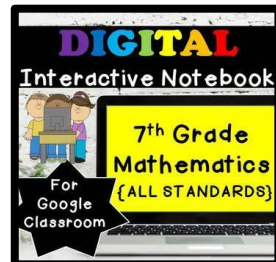
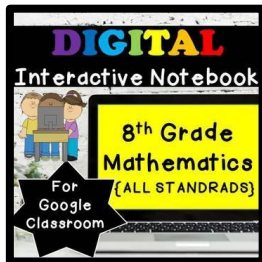
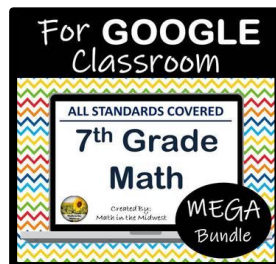
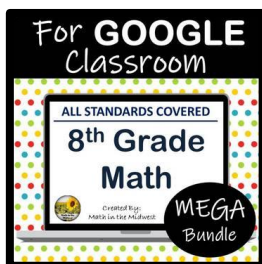
Number	Answer
11	<i>Function A</i>
12	<i>Function C</i>
13	Function C
14	Function A
15	Function B
16	Function C
17	A, C, B
18	C, A, B
19	C, A, B
20	B, A, C

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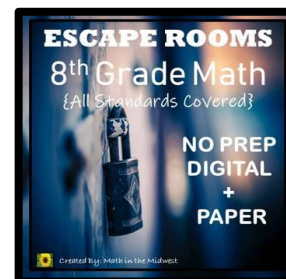
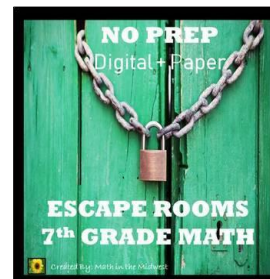
## Ultimate Bundles:



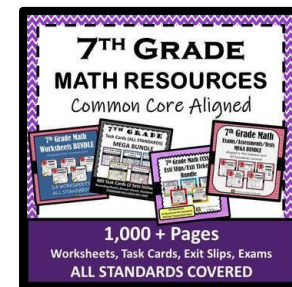
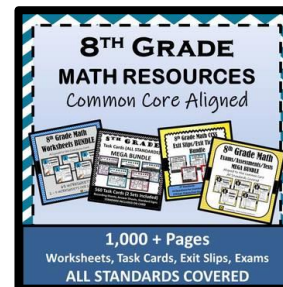
## Digital Bundles:



## Escape Rooms:



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