

How to use this activity

- **Materials** – scissors, worksheets, (glue and construction paper optional)
- Put students in pairs and hand them just the graphs and equations (pgs 2 & 3). Have them raise their hands when they finish so you can check their work. (Give them the glue if they get it correct if you are having them use glue and construction paper.)
- Students who have completed the first part of the activity should be handed the tables (pg 4) and the slips of paper to record their answers (pg. 5).
- **CAUTION:** Giving students all 18 graphs, tables, and equations at one time will just overwhelm them. Plus breaking the activity into two parts is great for differentiation. Some students will only be able to get the equation and graphs matching section.

Algebra Common Core Standard:

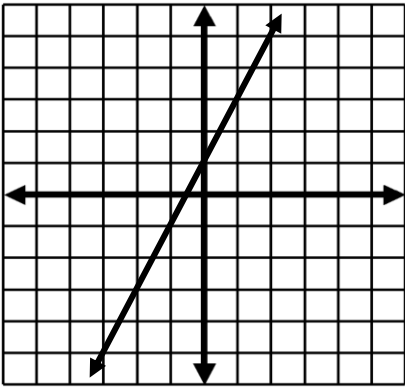
Interpret functions that arise in applications in terms of the context.

For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.

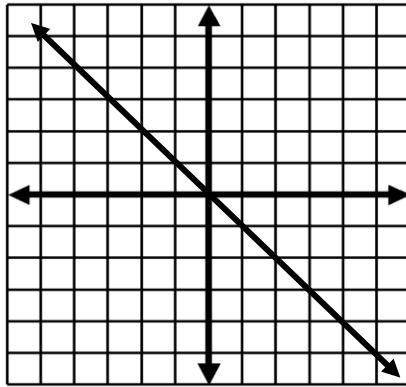
This activity will help students see the relationship between verbal equations, tables, and graphs. Do not assume students know how to go between these different functional representations on their own. It needs to be demonstrated and practiced.

Answer Key: 1) Ha 2) Em 3) Co 4) Kd 5) Lk 6) Jg 7) Ol 8) Ae 9) Rh

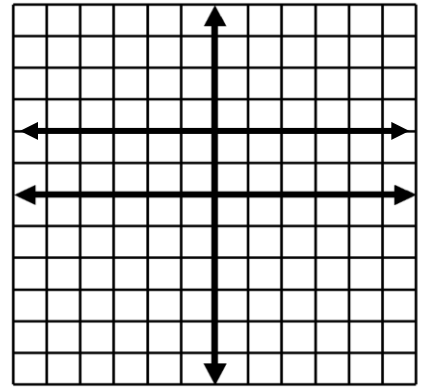
10) Bc 11) Dp 12) Ij 13) Mb 14) Pq 15) Qn 16) Gi 17) Nr 18) Ff



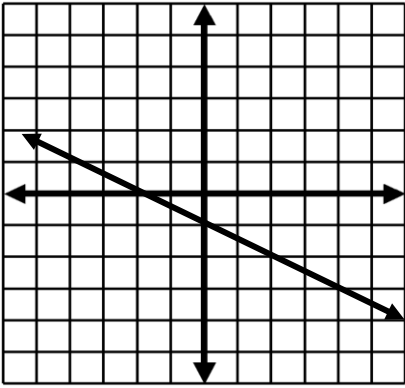
A



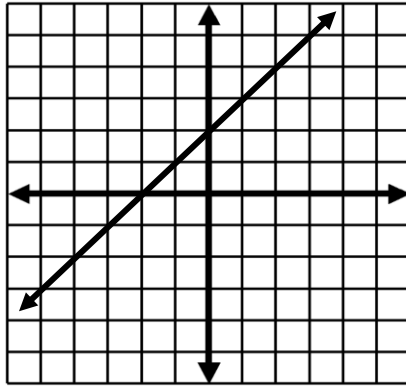
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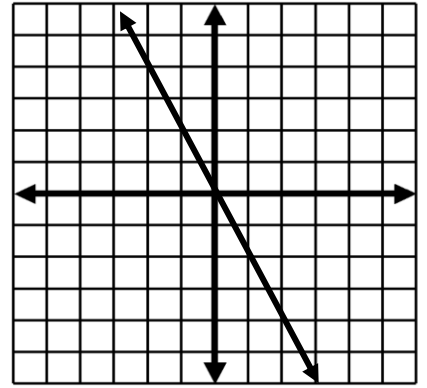
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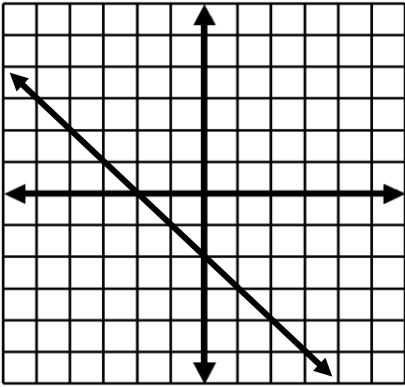
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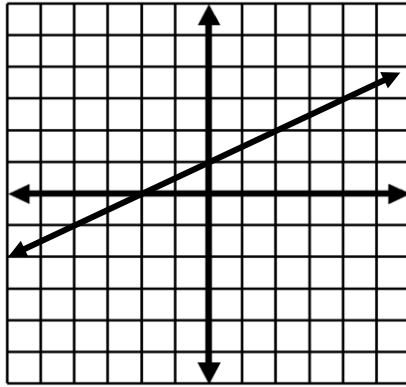
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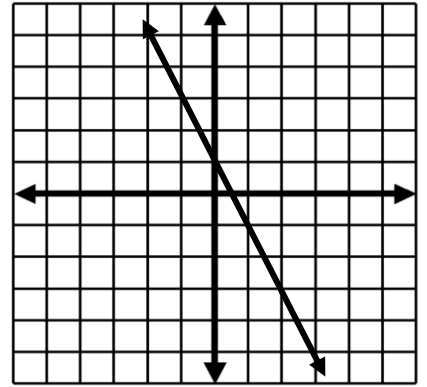
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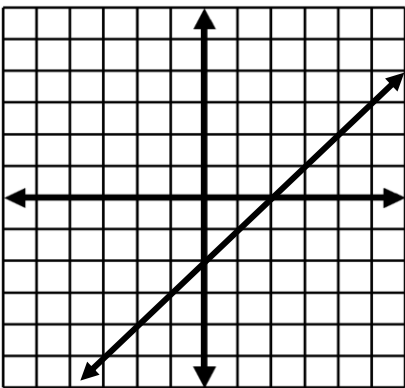
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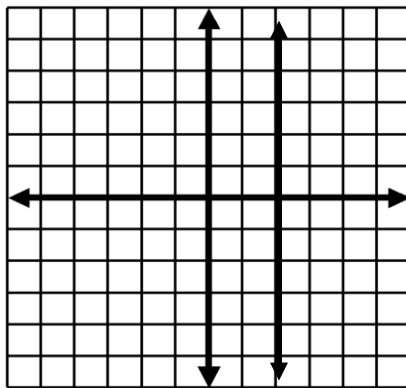
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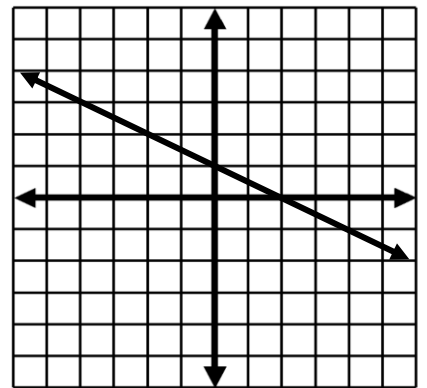
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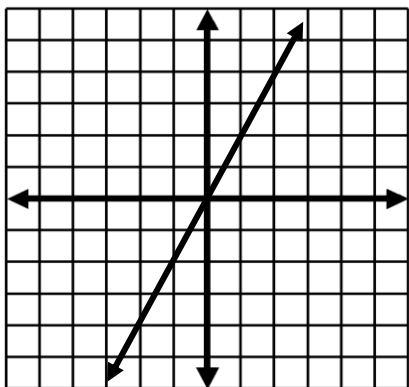
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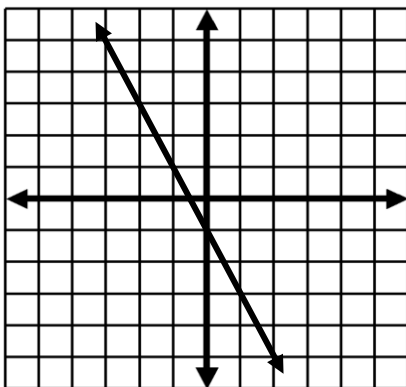
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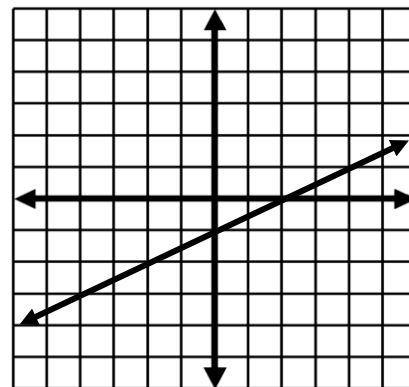
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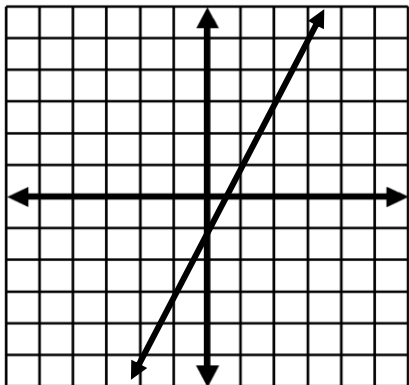
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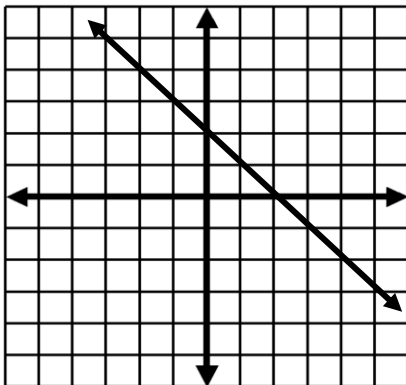
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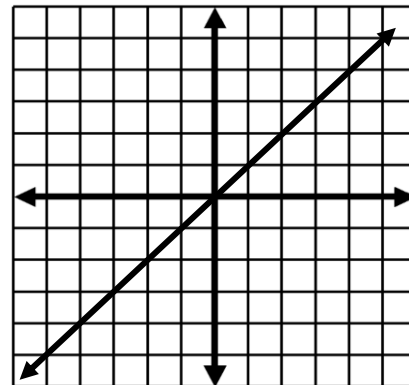
O



P



Q



R

1) $y = \frac{1}{2}x + 1$

2) $y = x + 2$

3) $y = 2$

4) $x = 2$

5) $y = -\frac{1}{2}x + 1$

6) $y = x - 2$

7) $y = \frac{1}{2}x - 1$

8) $y = 2x + 1$

9) $y = x$

10) $y = -x$

11) $y = -\frac{1}{2}x - 1$

12) $y = -2x + 1$

13) $y = 2x$

14) $y = 2x - 1$

15) $y = -x + 2$

16) $y = -x - 2$

17) $y = -2x - 1$

18) $y = -2x$

x	y
-2	0
2	2
4	3

a

x	y
-2	-4
0	0
2	4

b

x	y
-4	4
3	-3
4	-4

c

x	y
2	-3
2	5
2	9

d

x	y
-1	-1
0	1
2	5

e

x	y
-2	4
-1	2
2	-4

f

x	y
-5	-7
-3	-5
1	-1

g

x	y
-2	-2
1	1
2	2

h

x	y
-3	1
2	-4
6	-8

i

x	y
-1	3
0	1
3	-5

j

x	-6	-4	-2
y	4	3	2

k

x	-8	-4	-2
y	-5	-3	-2

l

x	-7	-3	4
y	-5	-1	6

m

x	-4	1	2
y	6	1	0

n

x	-2	0	2
y	2	2	2

o

x	-4	2	6
y	1	-2	-4

p

x	-4	-1	1
y	-9	-3	1

q

x	-2	1	3
y	3	-3	-7

r

Cut Answer Key off before handing worksheet to students

Answer Key: 1) Ha 2) Em 3) Co 4) Kd 5) Lk 6) Jg 7) Ol 8) Ae 9) Rh

10) Bc 11) Dp 12) Ij 13) Mb 14) Pq 15) Qn 16) Gi 17) Nr 18) Ff

Matching Equations, Tables, and Graphs

Name: _____

Period: _____ Date: _____

Graph

Table

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____

7) _____

8) _____

9) _____

10) _____

11) _____

12) _____

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18) _____

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Name: _____

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17) _____

18) _____