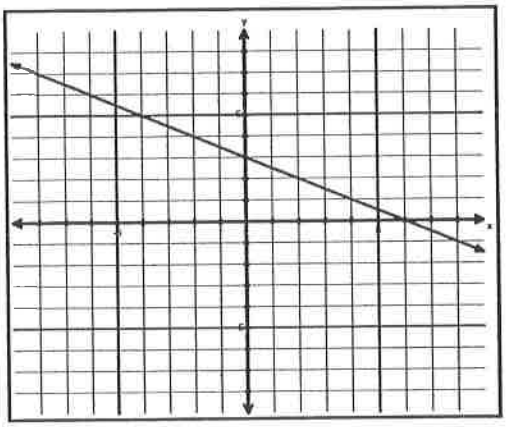
LINEAR SORTING AND MATCHING

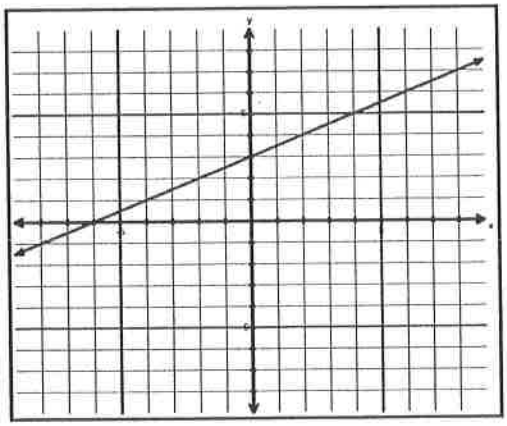
Work with your partner(s) to match each graph to its Equation, Slope & Y-Intercept, Table of Values, and Description

GRAPH	EQUATION	SLOPE & Y-INTERCEPT	TABLE OF VALUES	DESCRIPTION
A				
B				
C				
D				
E				
F				
G				
H				
I				
J				

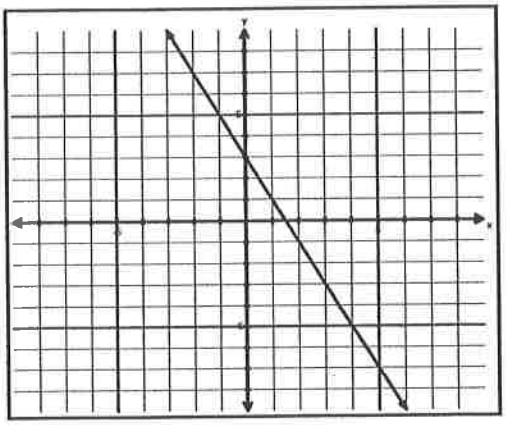
A



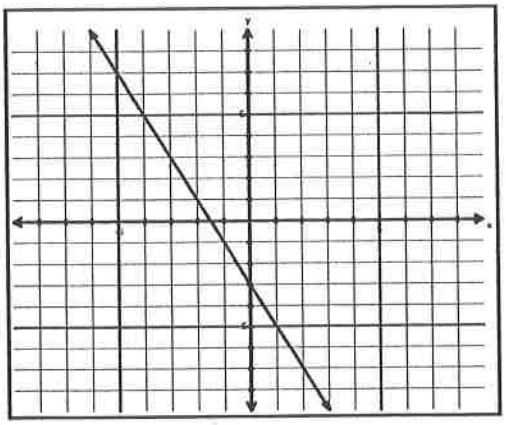
B



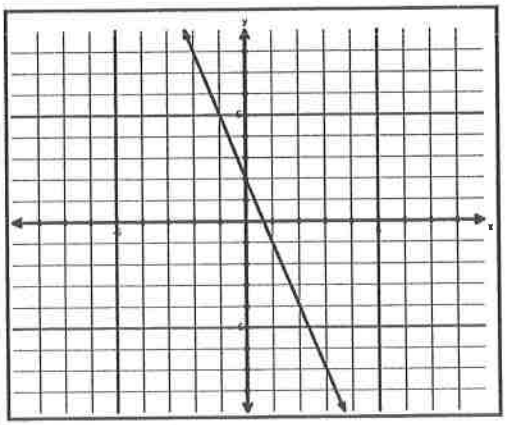
C



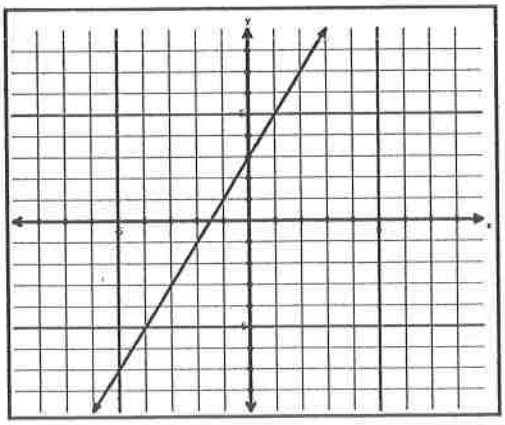
D



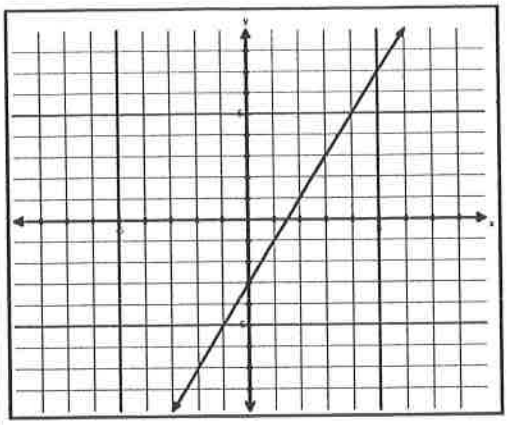
E



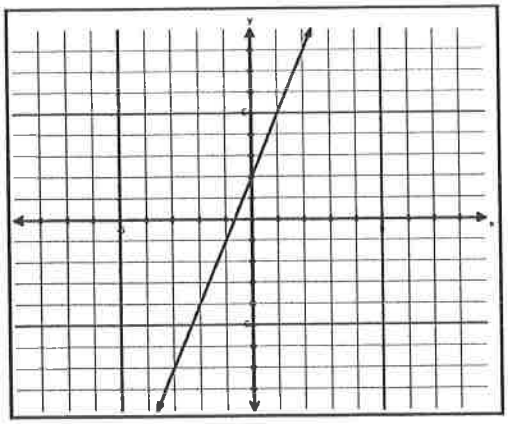
F



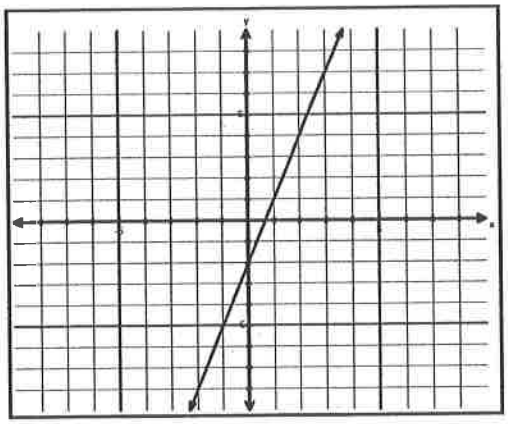
G



H



I



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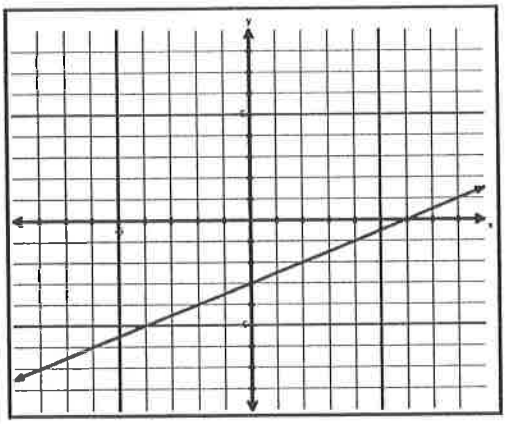

1 $y = -3 + \frac{1}{2}x$	2 $y = -3x + 2$
3 $y = 2x - 3$	4 $y = 2 + 3x$
5 $y = -3 - 2x$	6 $y = -2x + 3$
7 $y = -\frac{1}{2}x + 3$	8 $y = 3 + 2x$
9 $y = -2 + 3x$	10 $y = \frac{1}{2}x + 3$

11 slope: 2 y-intercept: 3	12 slope: 2 y-intercept: -3
13 slope: -2 y-intercept: -3	14 slope: 3 y-intercept: -2
15 slope: $\frac{1}{2}$ y-intercept: -3	16 slope: -2 y-intercept: 3
17 slope: $\frac{1}{2}$ y-intercept: 3	18 slope: $-\frac{1}{2}$ y-intercept: 3
19 slope: -3 y-intercept: 2	20 Slope: 3 y-intercept: 2

21

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

22

x	-2	0	2	4
y	-4	2	8	14

23

x	-2	0	2	4
y	-1	3	7	11

24

x	-2	0	2	4
y	-7	-3	1	5

25

x	-2	0	2	4
y	7	3	-1	-5

26

x	-2	0	2	4
y	2	3	4	5

27

x	-2	0	2	4
y	-8	-2	4	10

28

x	-2	0	2	4
y	8	2	-4	-10

29

x	-2	0	2	4
y	4	3	2	1

30

x	-2	0	2	4
y	1	-3	-7	-11

31 This graph has the same slope as graph B.	32 This graph has the steepest negative slope.
33 This graph has negative slope and a negative y-intercept.	34 This graph passes through the point (4,1).
35 This graph passes through (-1,-1) and has positive slope.	36 The line represented by this graph is parallel to graph F.
37 This graph passes through the point (0, -2).	38 This graph has an x-intercept at x = -6.
39 The line represented by this graph is parallel to graph D.	40 The x-intercept of the line is between -1 and -2 and its slope is positive.

LINEAR SORTING AND MATCHING

ANSWER SHEET

GRAPH	EQUATION	SLOPE & Y-INTERCEPT	TABLE OF VALUES	DESCRIPTION
A	7	18	29	34
B	10	17	26	38
C	6	16	25	39
D	5	13	30	33
E	2	19	28	32
F	8	11	23	40
G	3	12	24	36
H	4	20	22	35
I	9	14	27	37
J	1	15	21	31

OLD
Version
(Ignore)

1 $y = -3 + \frac{1}{2}x$	2 $y = -3x + 2$
3 $2x - y = 3$	4 $3x - y = -2$
5 $y = -2x - 3$	6 $2x + y = 3$
7 $x + 2y = 6$	8 $y = 2x + 3$
9 $y = -2 + 3x$	10 $y = \frac{1}{2}x + 3$

31 This graph has the same slope as graph B.	32 This graph has the steepest negative slope.
33 This graph has a negative slope and a negative y-intercept.	34 This line represented by this graph is perpendicular to graphs F and G.
35 This graph passes through (-1, -1) and has positive slope.	36 The line represented by this graph is parallel to graph F.
37 This graph passes through the point (0, -2).	38 This equation represented by this graph is equivalent to $x - 2y = -6$.
39 The line represented by this graph is parallel to graph D.	40 The x-intercept of the line represented by this graph is between -1 and -2 and its slope is positive.