

Name _____

Date _____

Reporting Category 3 (A.5.C.)

1. A math club decided to buy T-shirts for its members. A clothing company quoted the following prices for the T-shirts. Which equation best describes the relationship between the total cost, c , and the number of T-shirts, s ?

- A $c = 6.75s$
- B $c = 7.00s$
- C $c = 2s - 20$
- D $c = 15 + 6s$

Math Club T-Shirts

Number of T-Shirts	Total Cost (dollars)
10	75
15	105
20	135

2. Which function includes the data set $\{(2, 4), (6, 6), (12, 9)\}$?

- A $y = 2x$
- B $y = \frac{x}{2}$
- C $y = 2x - 9$
- D $y = \frac{x}{2} + 3$

3. The table below shows various values for x and y .

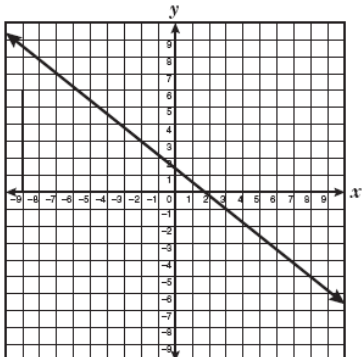
Which equation best describes the relationship between x and y ?

- A $y = -3x + 5$
- B $y = -5x - 7$
- C $y = -x + 17$
- D $y = 3x + 41$

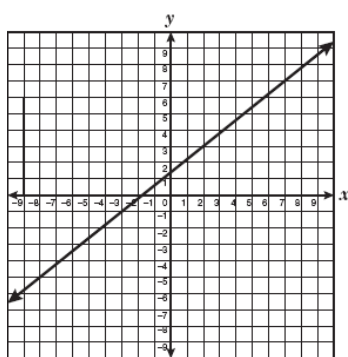
x	y
-6	23
-2	11
7	-16
11	-28

4. Which graph best represents the function $y = 0.8x + 1.4$?

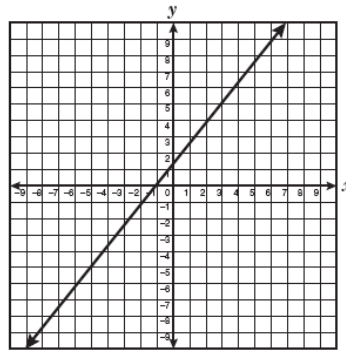
F



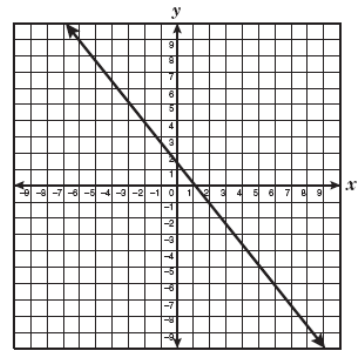
G



H



J



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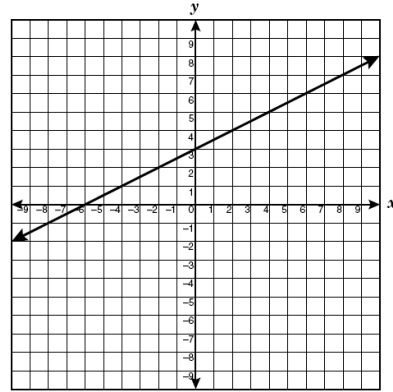
5. Which linear function best describes the graph shown below?

A $y = -3x + \frac{1}{2}$

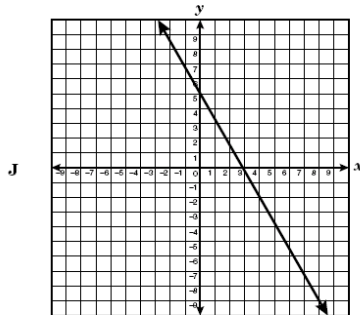
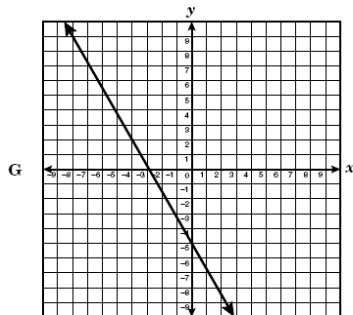
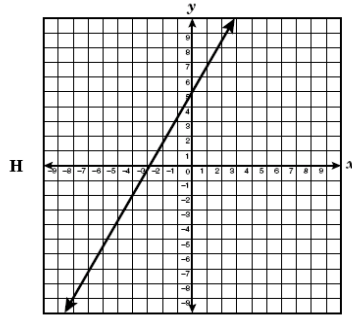
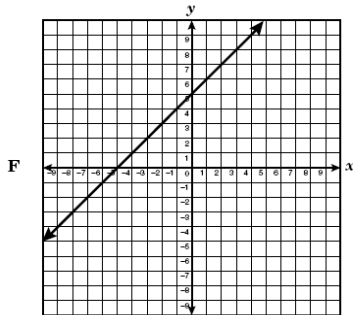
B $y = \frac{1}{2}x + 3$

C $y = -3x - \frac{1}{2}$

D $y = \frac{1}{2}x - 3$



6. Which graph best represents the function $y = -1.75x + 5$?



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7. Which table best describes points on the line graphed below?

A

x	y
-7	-5
-3	-1
-1	4
1	7
3	9

B

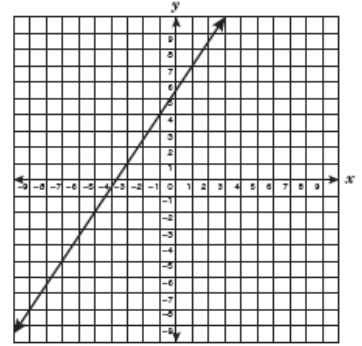
x	y
-9	-8
-2	-5
-1	4
1	6
3	10

C

x	y
-9	-8
-5	-2
-1	4
1	7
3	10

D

x	y
-7	-5
-5	-2
-3	-1
7	1
10	3



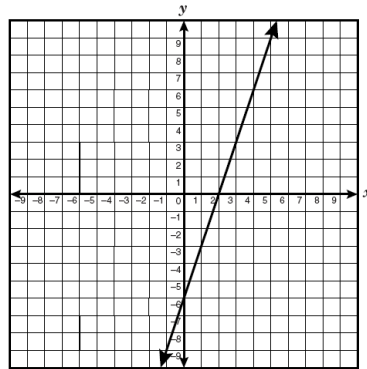
8. Which equation best represents the line graphed below?

A $-2x + y = 6$

B $3x - y = 6$

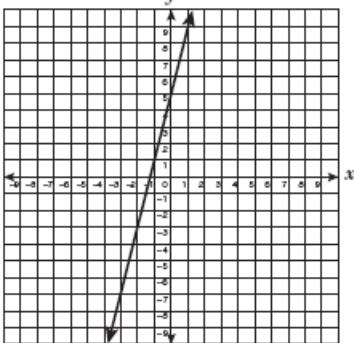
C $x - 3y = -6$

D $-3x + 3y = -6$

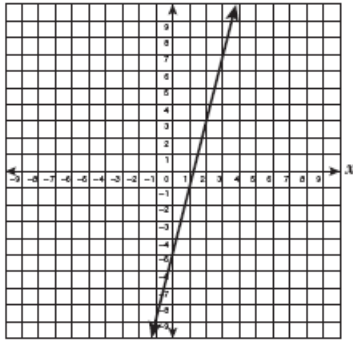


9. Which of the following best represents the graph of the equation $4x - y = -5$?

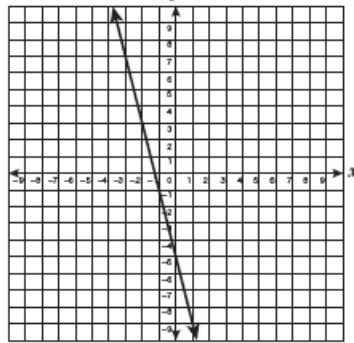
F



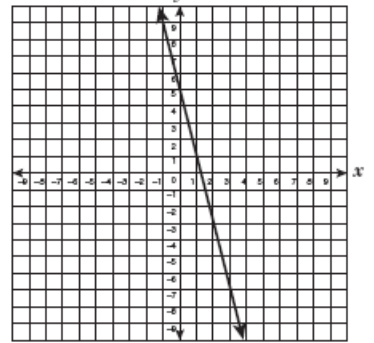
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H



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10. The algebraic form of a linear function is $d = \frac{1}{4}l$, where d is the distance in miles and l is the number of laps. Which of the following choices identifies the same linear function?

F For every 4 laps on the track, an athlete runs 1 mile.

G For every lap on the track, an athlete runs $\frac{1}{8}$ mile.

H

l	d
0	0
2	$\frac{1}{2}$
4	$\frac{1}{4}$

J

l	d
$\frac{1}{4}$	1
1	4
4	16

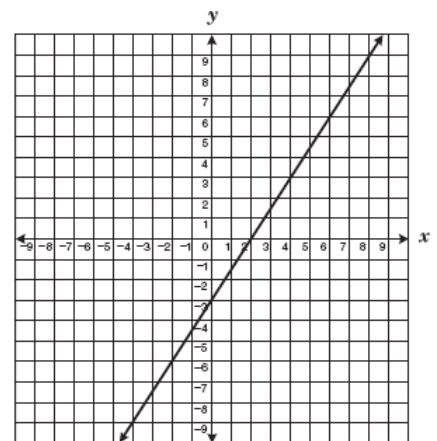
11. Which equation best represents the line on the graph?

F $3x - 2y = -4$

G $3x + 2y = -6$

H $3x - 2y = 6$

J $2x - 3y = -6$



12. Which table identifies points on the line defined by the equation $y - 5x = -9$?

A

x	y
-5	-34
-2	-19
1	-9
2	11
7	26

B

x	y
-6	-39
-5	-34
1	-14
4	10
7	24

C

x	y
-4	-29
-1	-14
1	-4
3	6
6	21

D

x	y
-7	-44
-3	-23
0	9
4	13
6	21