

In the equation $y = mx + b$, what is determined by the

m : _____

b : _____

Complete the table of values for each equation. Then match each equation with one of the graphs below.

1. $y = -3x$ 2. $y = \frac{1}{2}x$ 3. $y = \frac{2}{3}x$ 4. $y = -1x - 1$ 5. $y = \frac{1}{3}x + 1$ 6. $y = x$

x	y
-1	
0	
1	

x	y
-2	
0	
2	

x	y
-2	$-\frac{1}{3}$
0	0
2	$\frac{1}{3}$

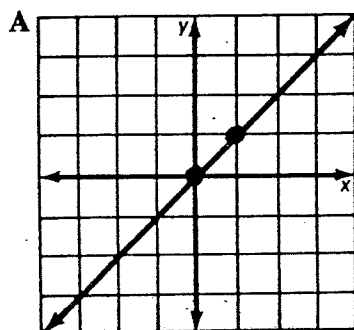
x	y
-2	
0	
2	

x	y
-3	
0	
3	

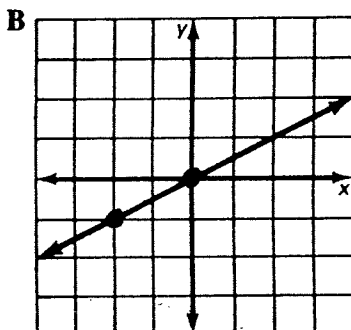
x	y
-2	
0	
2	

match
(A-F)

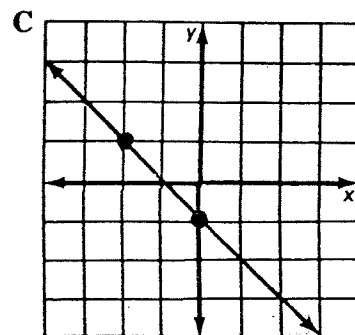
F



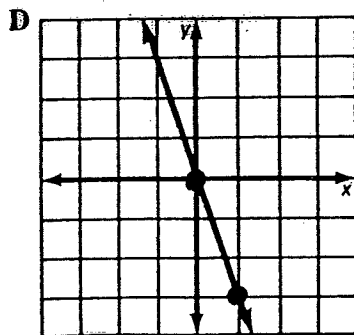
$m = \frac{1}{\square}$



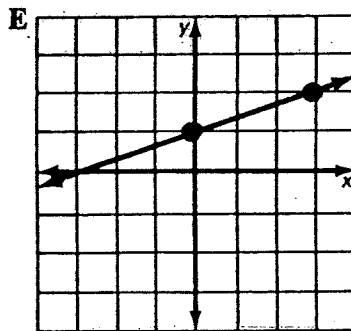
$m = \frac{1}{\square}$



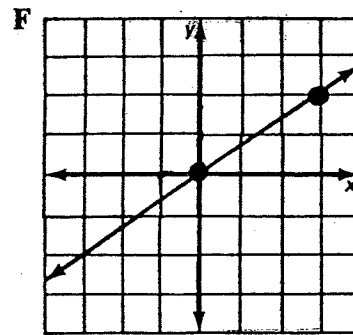
$m = \frac{-2}{\square}$



$m = \frac{-3}{\square}$



$m = \frac{1}{\square}$



$m = \frac{2}{\square}$

7. Use the two given points to find the slope of the line in each exercise above.

1. _____ 2. _____ 3. $\frac{2}{3}$ 4. _____ 5. _____ 6. _____

???? Trivia Question ???? U.S.A.

What percent of the population of Hawaii are full-blooded, native Hawaiians?

- Complete each table.
- Then write each letter over its matching answer in the Decoder.

1. $y = 3x$

x	y
-2	-6 A
-1	-3 B
0	C
1	D
2	E

2. $y = -4x$

x	y
-3	F
-2	H
-1	I
0	C
1	L

3. $y = 3x + 1$

x	y
-1	N
0	O
1	I
2	P
3	R

4. $y = 4x - 6$

x	y
-3	S
-2	T
-1	U
0	A
1	N

5. $y = 5x + 3$

x	y
-4	V
-2	W
0	D
2	A
4	S

6. $y = -4x - 3$

x	y
-2	I
-1	O
0	B
1	W
2	O

7. $y = \frac{1}{4}x - 3$

x	y
-8	E
-4	L
0	B
4	N
8	C

8. $y = -\frac{1}{2}x + 4$

x	y
-4	E
-2	I
0	I
2	D
4	L

DECODER

12	-10	-4	2	-3	-4	1	-11	3	6	3	-2	-6	-14	4	-17	-5	
8	13	-7	-6	5	4	-6	-2	23	13	0	-1	1	-10	-2	-14		
12	1	10	2	6	-18	23	-14	8	-6	-2	-11	-2	-5				
7	6	10	0	-5	-2	-14	1	12	-14	8	6						
7	-11	7	-10	-4	13	-14	4	1	-2	-11	12	8	-6	-7	13	5	4

What is the slope of each line? (hint: use the equation $y = mx + b$)

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