Name _____

1 Which chart could represent the function $f(x) = -2x + 6$?

x	f(x)
0	6
2	10
4	14
6	18

(1)

x	f(x)
0	8
2	10
4	12
6	14

(3)

x	f(x)
0	4
2	6
4	8
6	10

(2)

x	f(x)
0	6
2	2
4	-2
6	-6

(4)

2

Which equation represents the line that passes through the points (1,1) and (−2,7)?

(1) $y = -2x + 9$

(2) $y = -2x + 3$

(3) $y = -\frac{1}{2}x + 8$

(4) $y = -\frac{1}{2}x + 6$

monday

3

A satellite television company charges a one-time installation fee and a monthly service charge. The total cost is modeled by the function $y = 40 + 90x$. Which statement represents the meaning of each part of the function?

(1) y is the total cost, x is the number of months of service, $90 is the installation fee, and $40 is the service charge per month.

(2) y is the total cost, x is the number of months of service, $40 is the installation fee, and $90 is the service charge per month.

(3) x is the total cost, y is the number of months of service, $40 is the installation fee, and $90 is the service charge per month.

(4) x is the total cost, y is the number of months of service, $90 is the installation fee, and $40 is the service charge per month.

4

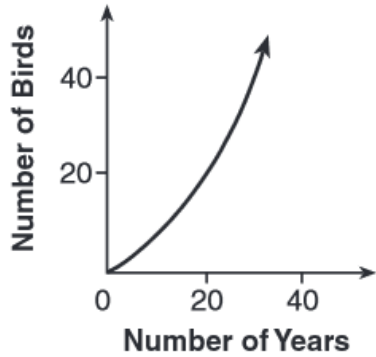The value of the x-intercept for the graph of $4x - 5y = 40$ is

(1) 10

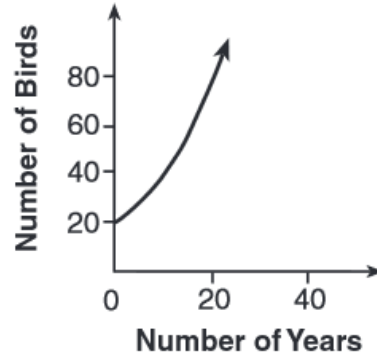(2) $\frac{4}{5}$

(3) $-\frac{4}{5}$
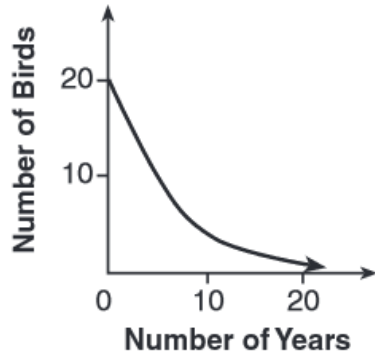
(4) -8

tuesday

Name _____

5 A population that initially has 20 birds approximately doubles every 10 years. Which graph represents this population growth?
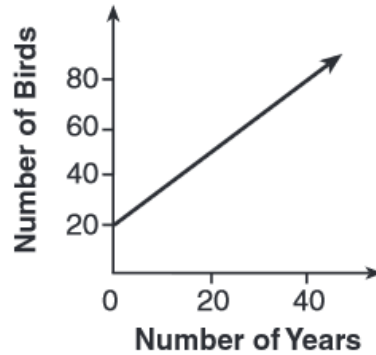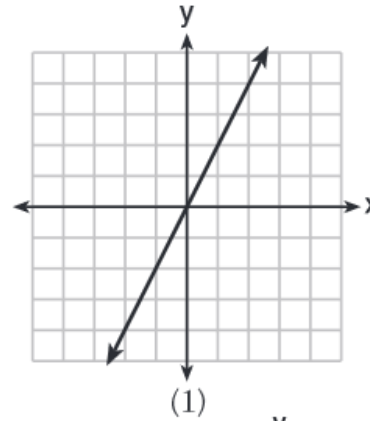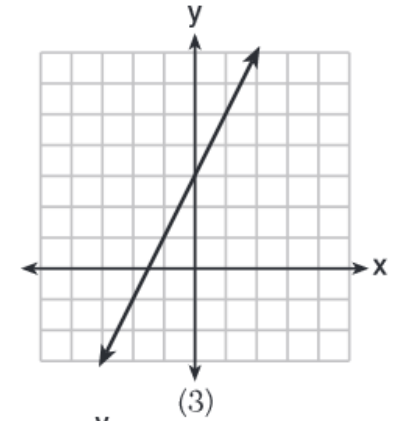

(1)

(3)

(2)

(4)

6 Let f be a function such that $f(x) = 2x - 4$ is defined on the domain $2 \leq x \leq 6$. The range of this function is

(1) $0 \leq y \leq 8$ (3) $2 \leq y \leq 6$

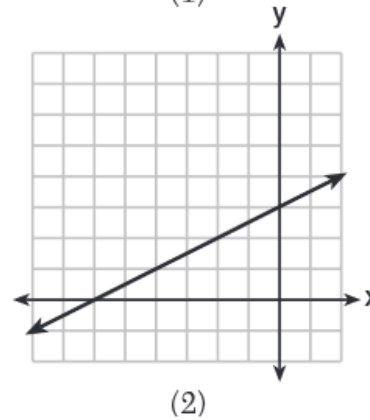(2) $0 \leq y < \infty$ (4) $-\infty < y < \infty$

Which graph shows a line where each value of y is three more than half of x?

7

(1)

(3)

(2)

(4)

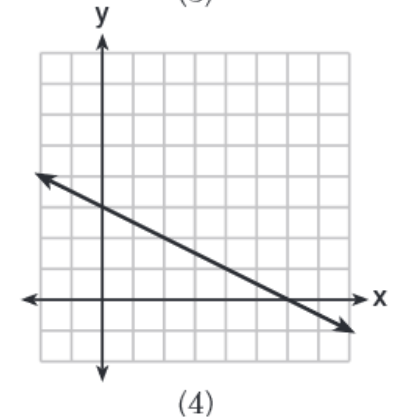**8** What is the value of x in the equation $\dfrac{x-2}{3} + \dfrac{1}{6} = \dfrac{5}{6}$?

(1) 4   (3) 8

(2) 6   (4) 11

wednesday

thursday