5

Bill is planning to drive 1,000 miles to visit his family. If he plans to drive 250 miles per day, which of the following represents the remaining distance d, in miles, that Bill will have to drive to reach his family after driving for n days?

A) $d = 1{,}000 + 250n$

B) $d = 1{,}000n - 250$

C) $d = 250n - 1{,}000$

D) $d = 1{,}000 - 250n$

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Which of the following is an equation of the line in the xy-plane that contains the points $(1, 3)$ and $(5, 15)$?

A) $y = 3x$

B) $y = 2x + 5$

C) $y = x + 2$

D) $y = \frac{1}{3}x$

4

Aracely can spend up to a total of $20 on streamers and balloons for a party. Streamers cost $1.49 per pack, and balloons cost $4.39 per pack. Which of the following inequalities represents this situation, where s is the number of packs of streamers Aracely can buy, and b is the number of pack of balloons Aracely can buy? (Assume there is no sales tax.)

A) $1.49s - 4.39b \leq 20$

B) $1.49s + 4.39b \leq 20$

C) $1.49s - 4.39b \geq 20$

D) $1.49s + 4.39b \geq 20$

3

The function f is defined by $f(x) = x^2 - 5x + 6$.
What is the value of $f(4)$?

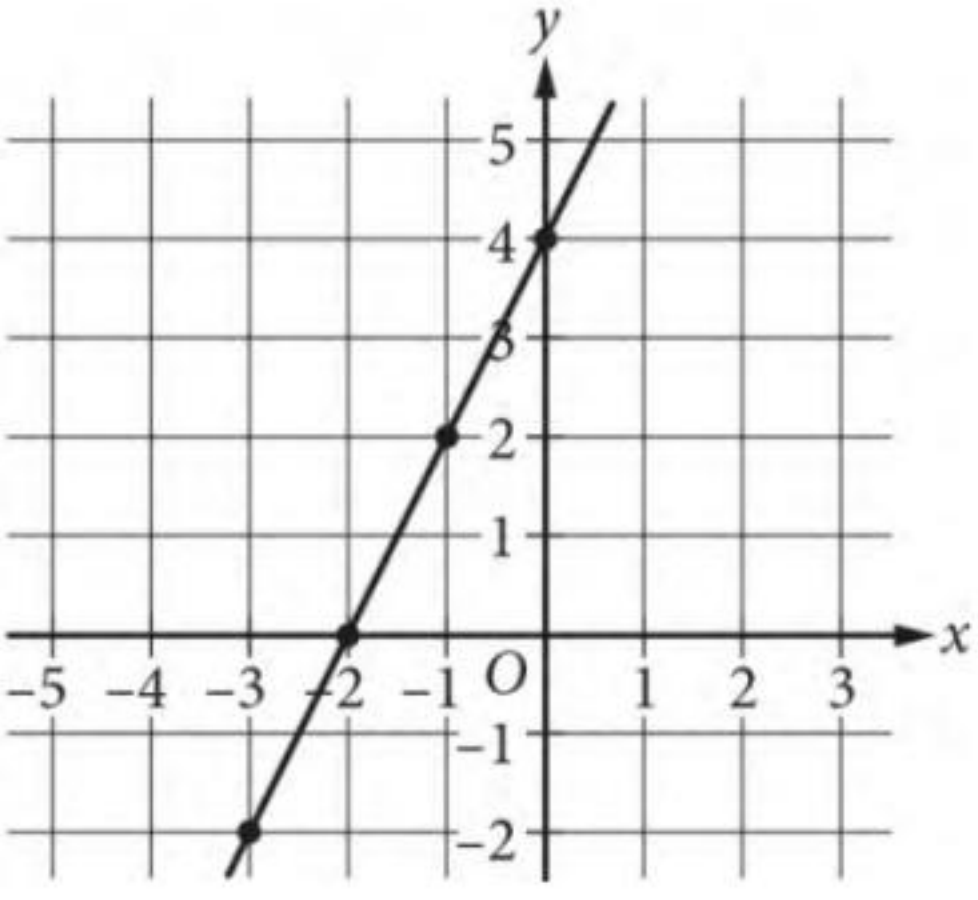
A) 0

B) 2

C) 12

D) 30

The graph of $y = mx + b$, where m and b are constants, is shown in the xy-plane.



What is the value of m ?

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$$3x - 0.6 = 1.8$$

What value of x satisfies the equation above?