



# SBAC<sup>Q&As</sup>

Smarter Balanced Assessment Consortium

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**QUESTION 1**

Simplify the expression  $(5x^2y + 7) + (2x + 4y - 2) - (x + 3y - 1)$

- A.  $8x + y + 4$
- B.  $6x + 3y + 6$
- C.  $6x - y + 6$
- D.  $6x + 9y + 4$

Correct Answer: C

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**QUESTION 2**

The graph of  $y = x^2 - 6x + 1$  has its \_\_\_\_\_ at the point (3, -8).

- A. center
- B. y-intercept
- C. maximum
- D. vertex

Correct Answer: D

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**QUESTION 3**

Which of these is not equal to:  $\tan(x) \sin(x) + \sec(x) \cos^2(x)$ ?



a)  $\frac{1}{\cos(x)}$

b)  $\frac{\sin^2(x) + \cos^2(x)}{\cos(x)}$

c)  $\tan(x) \sin(x) + \cos(x)$

d)  $\sec(x)$

e)  $\frac{\sin^2(x)}{\cos(x)} + \cos^2(x)$

A. e

B. c, e

C. a, c

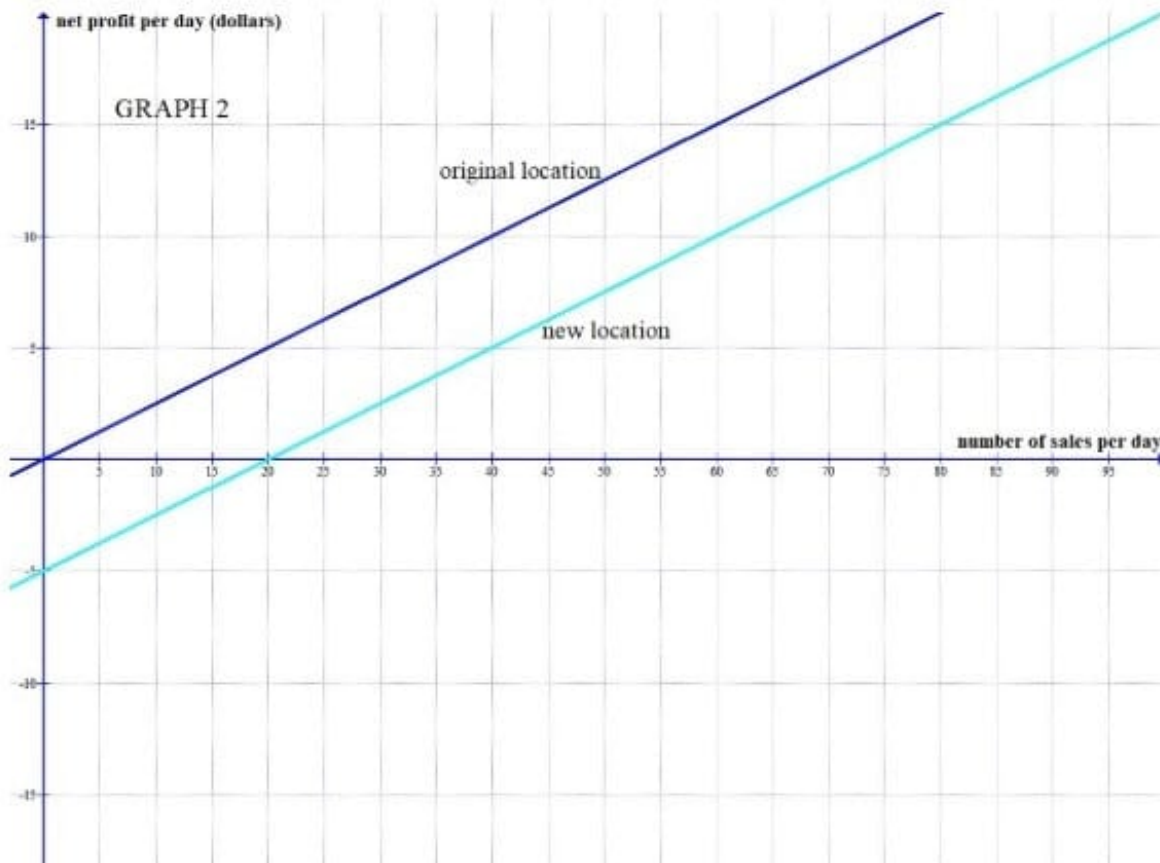
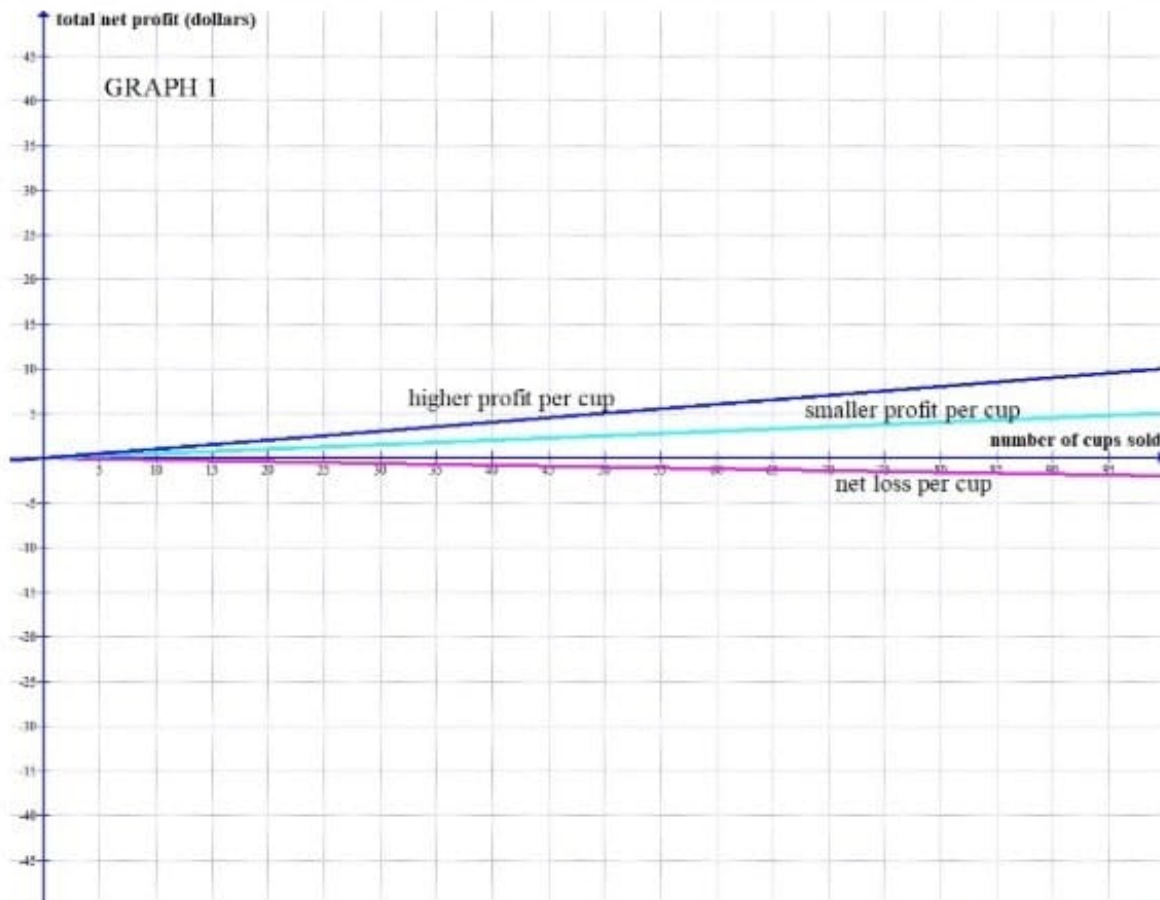
D. d

Correct Answer: A

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**QUESTION 4**

Aimee plans to open a lemonade stand. She wants to determine whether to sell an 8 ounce or 10 ounce cup of lemonade. Each 8-ounce cup costs 2 cents and 10 ounce cups are 3 cents each. The lemons to make a half-gallon of lemonade cost 5 dollars and the sugar for the half-gallon costs 85 cents. She already has all the materials needed to make the stand and she can use the location at no cost. Aimee notices that about 150 people pass by the location of her stand each day and thinks that 20 percent of these people will buy a cup of lemonade. You have made the 2 accompanying graphs to help Aimee make business decisions.





Read the attached passage and consult the attached graphs. Joshua tells Aimee to sell at a small loss and people will like the deal so much that she will sell lots of cups and still make lots of money. Use one of the attached graphs to explain to him why this is wrong.

- A. Graph 2 shows that even if profit starts below zero it will go above zero at some point.
- B. Graph 2 shows that a smaller profit eventually will give more income than a larger profit.
- C. Graph 1 shows that selling at a net loss per cup will never reach a positive value no matter how many cups are sold.
- D. Graph 1 shows that the amount lost is very small.

Correct Answer: C

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#### QUESTION 5

What is the vertex of the graph of  $f(x) = x^2 - 8x + 7$ ?

- A. (4, 23)
- B. (-4, -23)
- C. (4, -9)
- D. (-4, -9)

Correct Answer: C

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