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Vendor:Test Prep

Exam Code:SBAC

Exam Name:Smarter Balanced Assessment
Consortium

Version:Demo

QUESTION 1

Of the six basic trigonometric function graphs, which two do not show asymptotes?

- A. sine and cosine
- B. sine and secant
- C. tangent and cotangent
- D. cosine and cotangent

Correct Answer: A

QUESTION 2

For a given function, y varies directly with x . If $x = \frac{10}{3}$ when $y = 15$, which of these equations represents the function?

- A. $y = \frac{2}{9}x$
- B. $y = 50x$
- C. $y = -\frac{9}{2}x$
- D. $y = \frac{9}{2}x$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: A

QUESTION 3

A student is writing a biography about a person she considers to be the most influential person of the twentieth century. She would like to conduct more research to find resources to include in her essay. Which two sites are the least likely to offer her reliable, factual information she can use in her biographical essay?

Site 1: The Smithsonian Institution website: www.si.edu Site 2: The blog post of a Hollywood insider: www.insidehw.com
Site 3: The Public Broadcasting Service website: www.pbs.org Site 4: The archives of the National Library: www.nlb.gov
Site 5: The top 10 most influential people list: www.people.com

A. sites 1 and 5

B. sites 1 and 3

C. sites 2 and 4

D. sites 2 and 5

Correct Answer: D

QUESTION 4

Read the text attached.

"Declaration of Conscience" by Margaret Chase Smith June 1, 1950

Mr. President, I would like to speak briefly and simply about a serious national condition. It is a national feeling of fear and frustration that could result in national suicide and the end of everything that we Americans hold dear. It is a condition

that comes from the lack of effective leadership either in the legislative branch or the executive branch of our government...

...I speak as a Republican. I speak as a woman. I speak as a United States senator. I speak as an American...

...I think that it is high time for the United States Senate and its members to do some real soul searching and to weigh our consciences as to the manner in which we are performing our duty to the people of America and the manner in which

we are using or abusing our individual powers and privileges.

I think that it is high time that we remembered that we have sworn to uphold and defend the Constitution. I think that it is high time that we remembered that the Constitution, as amended, speaks not only of the freedom of speech, but also of trial by jury instead of trial by accusation.

Whether it is a criminal prosecution in court or a character prosecution in the Senate, there is little practical distinction when the life of a person has been ruined.

"The Basic Principles of Americanism"

Those of use who shout the loudest about Americanism in making character assassinations are all too frequently those who, by our own words and acts, ignore some of the basic principles of Americanism ?

The right to criticize.

The right to hold unpopular beliefs.

The right to protest.

The right of independent thought.

The exercise of these rights should not cost one single American citizen his reputation or his right to a livelihood nor should he be in danger of losing his reputation or livelihood merely because he happens to know someone who holds

unpopular beliefs. Who of us does not? Otherwise none of us could call our souls our own. Otherwise thought control would have set in.

The American people are sick and tired of being afraid to speak their minds lest they be politically smeared as "Communists" or "Fascists" by their opponents. Freedom of speech is not what it used to be in America. It has been so abused by

some that it is not exercised by others.

The American people are sick and tired of seeing innocent people smeared and guilty people whitewashed. But there have been enough proved cases...to cause nationwide distrust and strong suspicion that there may be something to the unproved, sensational accusations.

A Challenge to the Republican Party

As a Republican, I say to my colleagues on this side of the aisle that the Republican party faces a challenge today that is not unlike the challenge that it faced back in Lincoln's day. The Republican Party so successfully met that challenge that

it emerged from the Civil War as the champion of a united nation - in addition to being a party that unrelentingly fought loose spending and loose programs....

The Democratic administration has greatly lost the confidence of the American people by its complacency to the threat of communism here at home and the leak of vital secrets to Russia through key officials of the Democratic administration.

There are enough proved cases to make this point without diluting our criticism with unproved charges.

Surely these are sufficient reasons to make it clear to the American people that it is time for a change and that a Republican victory is necessary to the security of this country.... Yet to displace it with a Republican regime embracing a

philosophy that lacks political integrity or intellectual honesty would prove equally disastrous to this Nation. The nation sorely needs a Republican victory. But I do not want to see the Republican party ride to political victory... [using] fear,

ignorance, bigotry, and smear... I do not want to see the Republican party win that way. While it might be a fleeting victory for the Republican party, it would be a more lasting defeat for the American people. Surely it would ultimately be

suicide for the Republican party and the two-party system that has protected our American liberties from the dictatorship of a one-party system.

As members of the minority party, we do not have the primary authority to formulate the policy of our government. But we do have the responsibility of rendering constructive criticism, of clarifying issues, of allaying fears by acting as

responsible citizens.

As a woman, I wonder how the mothers, wives, sisters, and daughters feel about the way in which members of their families have been politically mangled in Senate debate - and I use the word "debate" advisedly...

I do not like the way the Senate has been made a rendezvous for vilification, for selfish political gain at the sacrifice of individual reputations and national unity. I am not proud of the way we smear outsiders from the floor of the Senate and

hide behind the cloak of congressional immunity and still place ourselves beyond criticism on the floor of the Senate.

As an American, I am shocked at the way Republicans and Democrats alike are playing directly into the Communist design of "confuse, divide, and conquer." As an American, I don't want a Democratic administration "whitewash" or

"coverup" any more than I want a Republican smear or witch hunt.

As an American, I condemn a Republican Fascist just as much as I condemn a Democrat Communist. I condemn a Democrat Fascist just as much as I condemn a Republican Communist. They are equally dangerous to you and me and to

our country. As an American, I want to see our nation recapture the strength and unity it once had when we fought the enemy instead of ourselves.

It is with these thoughts that I have drafted what I call a Declaration of Conscience. I am gratified that the senator from New Hampshire, the senator from Vermont, the senator from Oregon, the senator from New York, the senator from

Minnesota and the senator from New Jersey have concurred in that declaration and have authorized me to announce their concurrence. The purpose of repeating the phrase "as an American" throughout the attached speech is most likely to

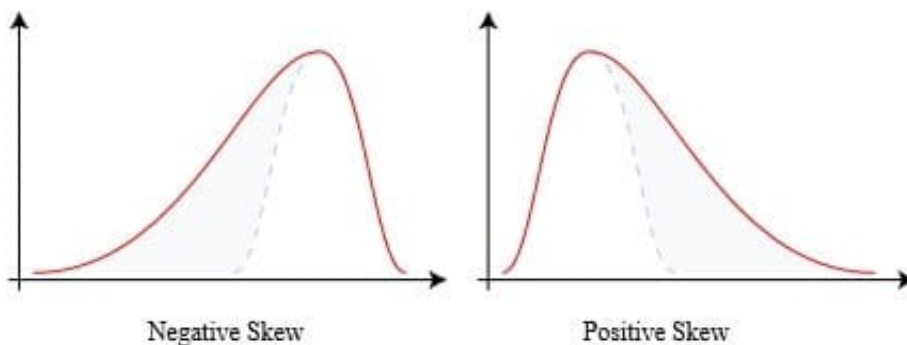
do all of the following except _____.

- A. show a sense of unity with the audience ?she is one of them
- B. arouse a sense of patriotism in the audience
- C. remind the audience of the principals and foundations of America
- D. inspire the audience to want to become American citizens if they are not already

Correct Answer: D

QUESTION 5

For the distributions shown in the attached image, which will be the better measure of the center of the data set?



- A. mean or median
- B. median or mode
- C. mean only
- D. mode only

Correct Answer: B

QUESTION 6

Which of the explicit functions listed below is equivalent to this recursive function:

$$\begin{aligned}f(1) &= 5 \\ f(n) &= f(n-1) - 3 \\ n &\geq 2\end{aligned}$$

- A. $f(n) = 5\pi + 6$
- B. $f(n) = 5\pi$
- C. $f(n) = 8 - 3\pi$
- D. $f(n) = 2 - 3\pi$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 7

FILL BLANK

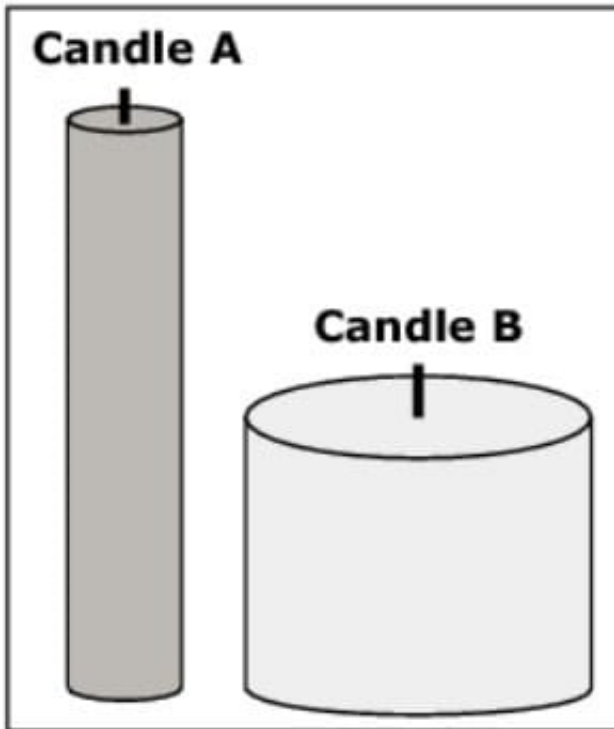
Case study

Lights, Candles, Action!

Your friend Abbie is making a movie. She is filming a fancy dinner scene and she has two types of candles on the table. She wants to determine how long the candles will last.

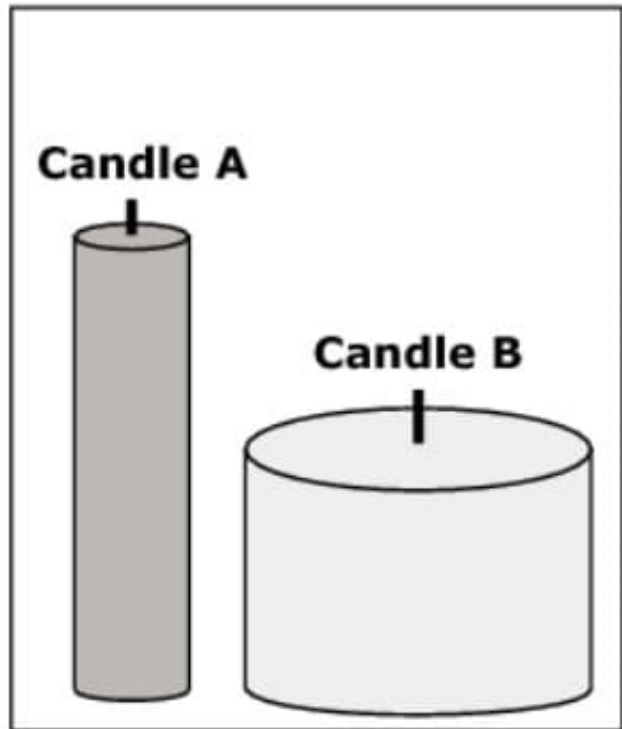
She takes a picture, lights the candles, and then lets them burn for 1 hour. She then takes a second picture. You can assume that each candle burns at its won constant rate.

First Picture:



Time = 0 hrs

Second Picture:



Time = 1 hr

Candle Type A initial height = 20 cm

Candle Type B initial height = 10 cm
Candle Type A height after burning for 1 hour = 16 cm
Candle Type B height after burning for 1 hour = 9 cm

You will use this information to help Abbie think about the candles she might use for her film.

For her next film, Abbie wants candles that will burn for exactly 8 hours. You want to give her a choice by designing two different candles (Type C and Type D).

Using the equation $h = k + nt$, determine two different pairs of values for k and n that will meet the requirement to burn down to a height of 0 cm in exactly 8 hours.

Complete the table to show two possible sets of values for k and n for your new candle designs.

| | k | n |
|----------------------|----------|----------|
| Candle Type C | | |
| Candle Type D | | |

A.

See explanation below.

Correct Answer: A

2 points: The student creates values for k and n that result in Candle Type C and Candle Type D burning out in 8 hours.

1 point: The student creates values for k and n that result in Candle Type C or Candle Type D burning out in 8 hours.

0 points: All other responses.

Sample full-credit responses:

| | k | n |
|---------------|----------|----------|
| Candle Type C | 16 | -2 |
| Candle Type D | 8 | -1 |

| | k | n |
|---------------|----------|----------|
| Candle Type C | 12 | -1.5 |
| Candle Type D | 24 | -3 |

QUESTION 8

A student is writing an informational essay about the impact of global warming on polar bears in the Arctic.

As climate change and the effects of global warming are felt worldwide, scientists have determined that polar bears in the Arctic are just one of the many species facing extinction from our rapidly warming planet. As the ocean waters warm, the main food source for the bears is disappearing. Shortages of food are literally causing these creatures to die of starvation.

Whereas bears could previously walk out onto the sea ice and wait for a seal to poke its snout through, shrinking sea ice means the bears must now walk or swim much farther than they did before to find food. These longer migrations to find food are taking their toll on the bear population.

Seals are a polar bear's main source of protein. They are also another victim of global warming. With the sea ice melting earlier in the warmer springtime and forming later in the warmer winters, seals struggle with finding a safe place to raise their pups. As a result, their numbers are starting to drop, meaning they are also no longer a plentiful food source for the bears

Read the attached passage and then answer this question about it. Choose the transition sentence that would improve the links between the first and the second paragraph.

- A. Polar bears are not the only ones having a difficult time finding food.
- B. There are many reasons why the polar bears are starving.

C. Polar bears are having a difficult time finding food.

D. Scientists suggest that climate change is a result of the Earth's natural cycle of heating exacerbated by man-made causes.

Correct Answer: A

QUESTION 9

Which inequality represents all possible solutions of $-6m$

A. n

B. $n > 2$

C. n

D. $n > 72$

Correct Answer: B

QUESTION 10

Which sentence contains a misplaced modifier?

A. Swimming in the water, Mark saw a shark.

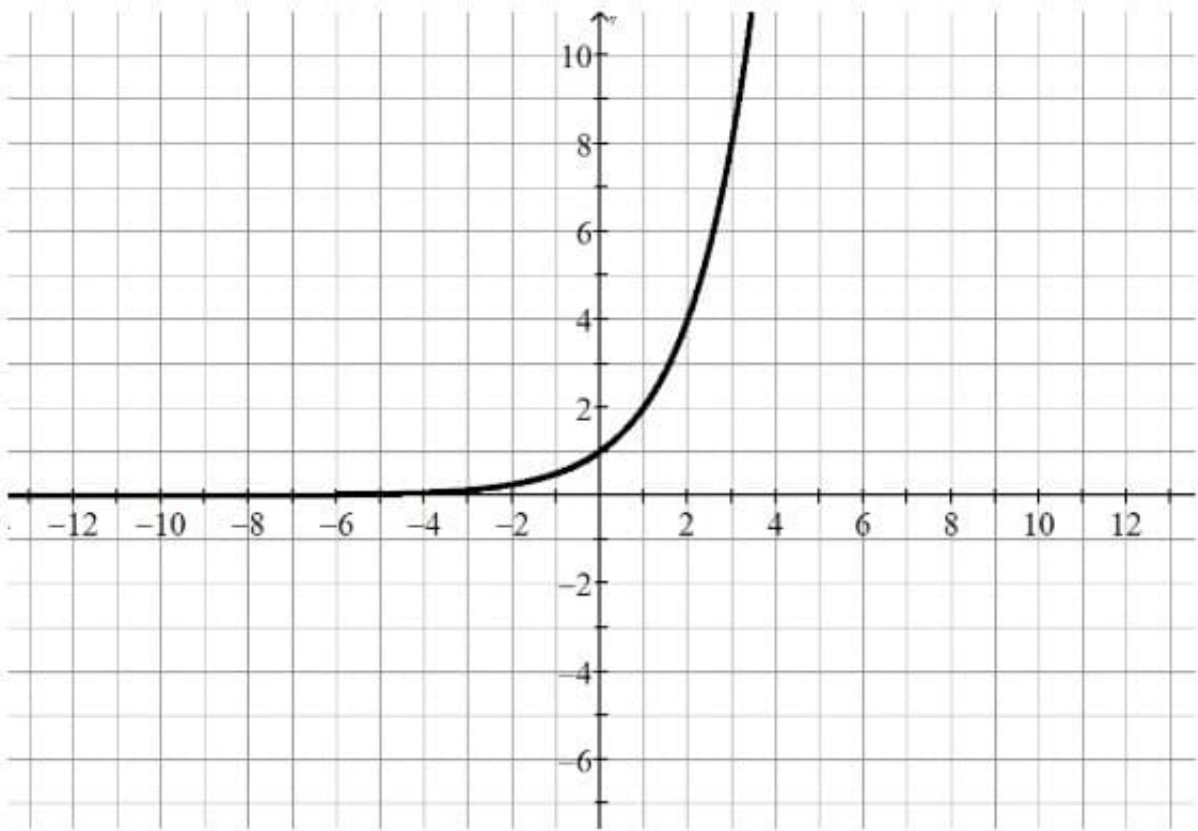
B. Lying under the tree, Sam finished reading the last chapter of the book.

C. The boy in the blue shirt and purple tie danced wildly across the dancefloor.

D. I ate hardly any lunch at school today.

Correct Answer: A

QUESTION 11



The graph of the exponential function $y = a \times b^x$ is attached. Which of the following statements is true about the function?

- A. The domain is all real numbers less than 4, and the range is all real numbers greater than 0.
- B. The domain is all real numbers greater than 0, and the range is all real numbers greater than 0.
- C. The domain is all real numbers, and the range is all real numbers greater than 0.
- D. The domain is all real numbers greater than 0, and the range is all real numbers.

Correct Answer: C

QUESTION 12

| | Junior | Senior | Total |
|---------------|-------------|-------------|-------------|
| Attending | 36 <i>A</i> | 31 | 67 |
| Not Attending | 22 | 45 <i>C</i> | 67 <i>D</i> |
| Total | 58 <i>B</i> | 76 | 134 |

In this survey (results attached), what is the relative frequency of seniors attending the game?

- A. 0.46
- B. 0.41
- C. 0.23
- D. 0.50

Correct Answer: C