Tucson International Academy

Academia Internacional de Tucson

Homework Packet for Twelveth Grade

Week 17

Name_____

Week Starts on/ Due on _____

Each week you are to complete your homework packet and turn it on the day the teacher assigns. Part of the homework is reading 45 minutes a day. This can be done in after school care and they can read to a younger sibling or an adult as well. Weekend reading is encouraged, each week students can get credit for reading on Saturday and/or Sunday. Reading each day is very important to help each student get better at this skill.

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Weekly Home Reading Record

Day	Reading Material	Amount of Time	How many pages
Weekend			
Monday			
Tuesday			
Wednesday			
Thursday			

Total Time Reading: Hours_____ Minutes_____

Student Signature_____ Date_____

Parent Signature_____ Date_____

Questions 34-44 are based on the following passage.

More than One Way to Dress a Cat

From Michelangelo's *David* to Vincent van Gogh's series of self-portraits to Grant Wood's iconic image of a farming couple in *American* 34 *Gothic.* These works by human artists have favored representations of members of their own species to those of other species. Indeed, when we think about animals depicted in well-known works of art, the image of dogs playing poker—popularized in a series of paintings by American artist C. M. 35 Coolidge, may be the first and only one that comes to mind. Yet some of the earliest known works of art, including paintings and drawings tens of thousands of years old found on cave walls in Spain and France, 36 portrays animals. Nor has artistic homage to our fellow creatures entirely died out in the millennia since, 37 despite the many years that have passed between then and now.

34

A) NO CHANGE
B) *Gothic.* Works
C) *Gothic*; these works
D) *Gothic*, works

35

A) NO CHANGE
B) Coolidge—
C) Coolidge;
D) Coolidge

36

A) NO CHANGE
B) portraying
C) portray
D) has portrayed

37

The writer wants to link the first paragraph with the ideas that follow. Which choice best accomplishes this goal?

A) NO CHANGE
B) with special attention being paid to domestic animals such as cats.
C) even though most paintings in museums are of people, not animals.
D) as the example of one museum in Russia shows.

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CONTINUE

[1] The State Hermitage Museum in St. Petersburg, one of Russia's greatest art museums, has long had a productive partnership with a much loved animal: the cat. [2] For centuries, cats have guarded this famous museum, ridding it of mice, rats, and other rodents that could damage the art, not to mention 38 scared off visitors. [3] Peter the Great introduced the first cat to the Hermitage in the early eighteenth century. [4] Later Catherine the Great declared the cats to be official guardians of the galleries. [5] Continuing the tradition, Peter's daughter Elizaveta introduced the best and strongest cats in Russia to the Hermitage. [6] Today, the museum holds a yearly festival honoring these faithful workers. 39

38

A) NO CHANGE
B) scaring
C) scare
D) have scared

39

To make this paragraph most logical, sentence 5 should be placed

A) where it is now.
B) after sentence 1.
C) after sentence 3.
D) after sentence 6.

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CONTINUE

These cats are so cherished by the museum that officials recently 40 decreed original paintings to be made of six of them. In each, a cat is depicted upright in a humanlike pose and clothed in imperial-era Russian attire. The person chosen for this 41 task, digital artist, Eldar Zakirov painted the cats in the style traditionally used by portrait artists, in so doing 42 presenting the cats as noble individuals worthy of respect. One portrait, *The Hermitage Court Chamber Herald Cat*, includes an

40

A) NO CHANGE
B) commissioned
C) forced
D) licensed

41

A) NO CHANGE
B) task, digital artist, Eldar Zakirov,
C) task digital artist Eldar Zakirov,
D) task, digital artist Eldar Zakirov,

42

Which choice most effectively sets up the examples that follow?

A) NO CHANGE
B) managing to capture unique characteristics of each cat.
C) commenting on the absurdity of dressing up cats in royal robes.
D) indicating that the cats were very talented mouse catchers.

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CONTINUE

aristocratic tilt of feline ears as well as a stately sweep of tail emerging from the stiff scarlet and gold of royal court dress. The wise, thoughtful green eyes of the subject of *The Hermitage Court Outrunner Cat* mimic those of a trusted royal advisor. 43 Some may find it peculiar to observe cats portrayed in formal court poses, but these felines, by 44 mastering the art of killing mice and rats, are benefactors of the museum as important as any human.

43

At this point, the writer is considering adding the following sentence.

> The museum occupies six historic buildings, including the Winter Palace, a former residence of Russian emperors.

Should the writer make this addition here?

A) Yes, because it shows the link between Peter the Great and the cat paintings.

B) Yes, because it helps explain why Russian art celebrates animals.

C) No, because it fails to indicate why the Winter Palace became an art museum.

D) No, because it provides background information that is irrelevant to the paragraph.

44

A) NO CHANGE

B) acting as the lead predator in the museum's ecosystem,

C) hunting down and killing all the mice and rats one by one,

D) protecting the museum's priceless artworks from destructive rodents,

STOP

If you finish before time is called, you may check your work on this section only. Do not turn to any other section.

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Pre-Calculus (12) Week 17

Name: Gary Young

#1 Points possible: 1. Total attempts: 1

If $\sin x = \frac{5}{8}$, x in quadrant I, then find (without finding x)

$\sin(2x) =$ _____
$\cos(2x) =$ _____
$\tan(2x) =$ _____

#2 Points possible: 1. Total attempts: 1

Using a double-angle or half-angle formula to simplify the given expressions.

(a) If $\cos^2(25°) - \sin^2(25°) = \cos(A°)$, then

$A =$ _____ degrees

(b) If $\cos^2(3x) - \sin^2(3x) = \cos(B)$, then

$B =$ _____ .

#3 Points possible: 1. Total attempts: 1

Solve $7\sin(2x) - 6\cos(x) = 0$ for all solutions $0 \leq x < 2\pi$

$x =$ _____

Give your answers accurate to at least 2 decimal places, as a list separated by commas

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#4 Points possible: 1. Total attempts: 1

Solve $8\cos(2\beta) = 8\sin^2(\beta) + 4$ for all solutions $0 \leq \beta < 2\pi$

$\beta =$ _____

Give your answers accurate to at least 2 decimal places, as a list separated by commas

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#5 Points possible: 1. Total attempts: 1

Use a half angle formula to fill in the blanks in the identity below:

$(\cos(8x))^2 =$ _____ + _____ $\cos($ _____ $x)$
