GiftedReady

MAP 11th Grade

PDF Sample Test

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* The correct answers and explanations are located at the end of this PDF.

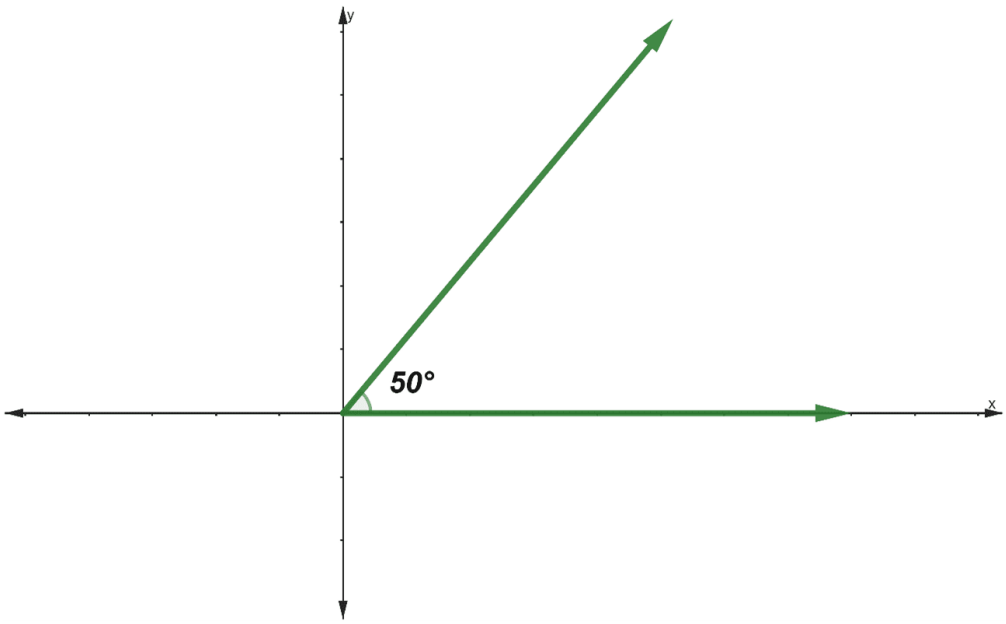
Practice Questions

NWEA MAP 11th Grade Math Practice Questions

Question #1

Geometry

Which of the following is a positive coterminal angle with 50°?



A. 135°
B. 225°
C. 310°
D. 410°
E. 450°

Question #2

Operations and Algebraic Thinking

What is the vertical asymptote of this graph?

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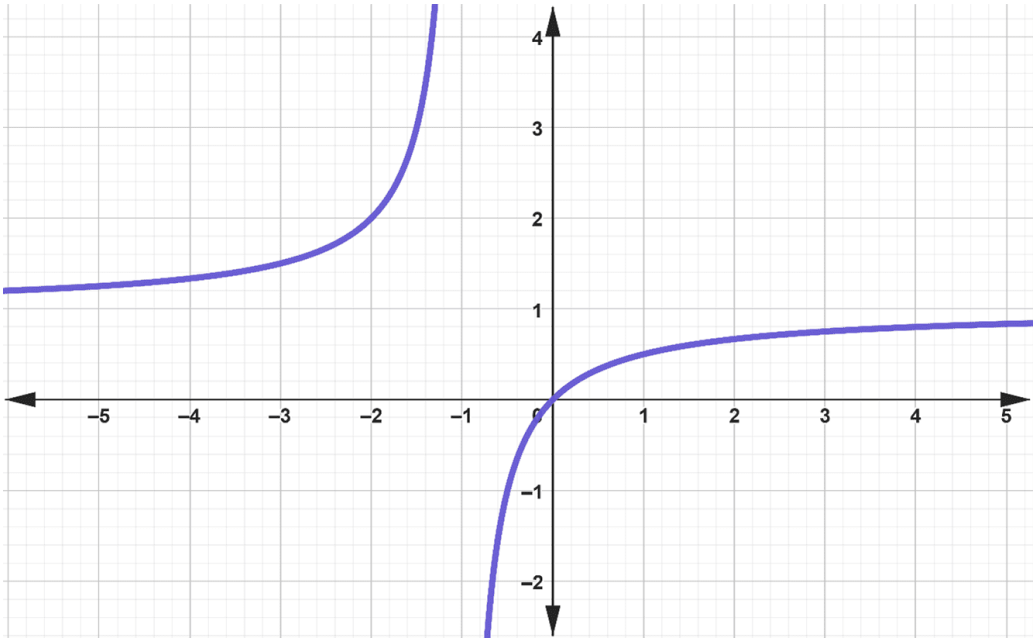

A. x = -1
B. x = 0
C. x = 1
D. x = 2
E. x = 3

Question #3

Statistics and Probability

A school studied the relationship between weekly study hours (x) and math test scores (y). The regression equation is:

y = 5x + 62

The correlation coefficient is r = 0.88.

Which statement best interprets this information?

A. Each additional hour studied increases test scores by 62 points, and the relationship is strong.
B. 88% of students who study more than average will score above 62 points.
C. The equation shows that studying more directly causes higher test scores.
D. Each additional hour studied is associated with an average increase of 5 points, and the relationship is strong and positive.
E. The value 0.88 means 88% of the change in scores is caused by study time.

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Question #4

The Real and Complex Number Systems

Solve the equation:

$x^2 - 6x + 13 = 0$

Which of the following represents the solution?

A. $x = 3 \pm 2$
B. $3 \pm 2i$
C. $3 \pm 2i$
D. $6 \pm 2i$
E. $-3 \pm 4i$

NWEA MAP 11th Grade Reading Practice Questions

Question #5

Literary Text

Read the passage.

In a town where electricity had become too costly for most families, candles and kerosene lamps had replaced lightbulbs in nearly every home. Evenings were quieter now. Conversations ended earlier. Children studied less.

Mariah, fourteen and endlessly curious, refused to accept that darkness was permanent. She spent her afternoons scavenging for discarded mirrors, broken wiring, and old car batteries from the junkyard outside town. Neighbors watched her with amusement. “Solar power?” they said. “That’s for scientists, not children.”

At first, her attempts failed. Mirrors cracked. Circuits sparked. Batteries drained too quickly. Each mistake drew more laughter. Some neighbors suggested she focus on “more practical” pursuits.

But Mariah kept careful notes. She adjusted angles. She tested reflection patterns. She learned from every short circuit and every dim flicker of light. Months later, one evening just after sunset, her small workshop lit up with steady brightness.

The light was not only practical – it was symbolic. Within weeks, other families asked her how she had done it. Soon, rooftops across town reflected sunlight.

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Even those who had doubted her began experimenting with new ideas of their own.

Mariah had not simply built a generator. She had altered the way her community thought about limits.

Which theme is most strongly developed in the passage?

A. Technological advancement depends on formal education and professional expertise.
B. Societal progress often begins when individuals challenge accepted limitations.
C. Renewable energy is the only sustainable solution for struggling communities.
D. Young people frequently misunderstand the risks involved in innovation.
E. Communities resist change because tradition is more powerful than evidence.

Question #6

Vocabulary

Read the short passage.

The sun dipped below the horizon, leaving a canvas of oranges and pinks stretched across the sky like an artist's masterpiece. The streets grew quiet, as if the town itself paused in reluctant awe. Yet beneath the beauty lingered a strange stillness, an awareness that the light was fading and would not return until morning.

What does the phrase "like an artist's masterpiece" suggest about the sunset in this passage?

A. The sunset was unusually dramatic and overstated by the narrator.
B. The sunset distracted people from their responsibilities.
C. The sunset symbolized a joyful celebration taking place in the town.
D. The sunset represented a random and chaotic natural event.
E. The sunset was portrayed as intentionally beautiful yet temporary.

Question #7

Informational Text

Read the excerpt from a historical text.

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“These are the times that try men’s souls. The summer soldier and the sunshine patriot will, in this crisis, shrink from the service of their country; but he that stands it now, deserves the love and thanks of man and woman. Tyranny, like hell, is not easily conquered; yet we have this consolation with us—that the harder the conflict, the more glorious the triumph. What we obtain too cheap, we esteem too lightly: it is dearness only that gives everything its value. Heaven knows how to put a proper price upon its goods; and it would be strange indeed if so celestial an article as FREEDOM should not be highly rated.”

-The Crisis by Thomas Paine, 1776

Which rhetorical strategy does Paine most effectively use in this excerpt?

A. Emotional appeal (pathos)s
B. Use of factual statistics
C. Logical reasoning (logos)
D. Expert testimony

NWEA MAP 11th Language Usage Practice Questions

Question #8

Understand and Edit for Mechanics

As the storm rolled across the countryside, the thunder cracked sharply and then lingered, reverberating across the wide, treeless _____ until the sound dissolved into the distance.

Choose the word that correctly completes the sentence.

A. plane
B. plein
C. plaine
D. plain
E. plainne

Question #9

Understand, Edit for Grammar, Usage

Which revision best corrects the inappropriate shift in verb tense in the sentences below?

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Maria had been planning her trip for weeks. She packed her suitcase carefully and checks the airline website one last time before heading to the airport.

A. Maria had been planning her trip for weeks. She packs her suitcase carefully and checks the airline website one last time before heading to the airport.
B. Maria had been planning her trip for weeks. She packed her suitcase carefully and checked the airline website one last time before heading to the airport.
C. Maria had been planning her trip for weeks. She packing her suitcase carefully and checked the airline website one last time before heading to the airport.
D. Maria had been planning her trip for weeks. She packed her suitcase carefully and will check the airline website one last time before heading to the airport.
E. Maria had been planning her trip for weeks. She has packed her suitcase carefully and checks the airline website one last time before heading to the airport.

Question #10

Write & Revise Texts for Purpose and Audience

A student is writing an analytical paragraph for a research paper examining how social media influences modern communication habits among young adults.

Which topic sentence would best introduce a focused analytical paragraph on this subject?

A. Social media is everywhere today, and many people use it for different reasons.
B. Platforms such as Instagram, Snapchat, and TikTok allow users to post pictures, videos, and comments.
C. Although social media has increased the speed and accessibility of communication, it has also reshaped interpersonal relationships in complex ways.
D. I think social media can be both good and bad depending on how people use it.
E. Communication has changed a lot over time because of technology.

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Correct Answers & Explanations

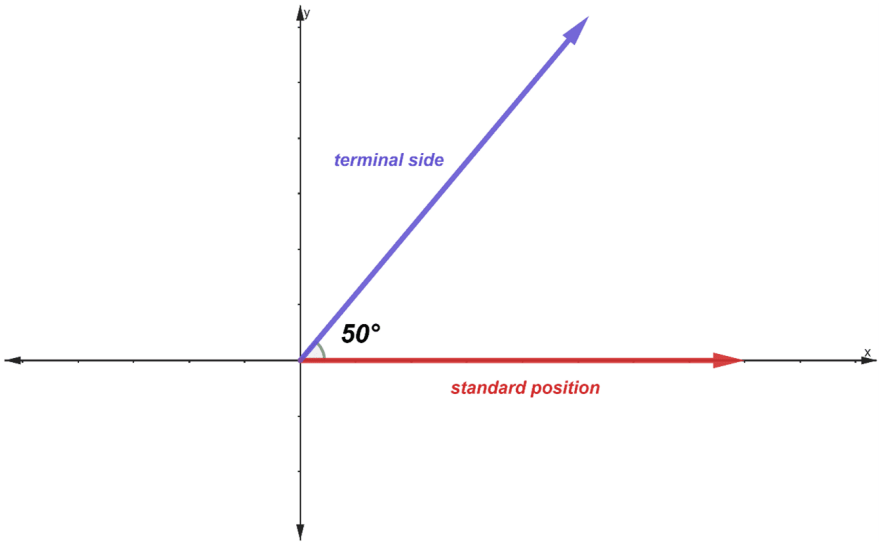
Question #1

Correct answer: D

Coterminal angles are angles that have the same terminal side when drawn in standard position, but they differ by integer multiples of (for angles measured in degrees) or 2π (for angles measured in radians).

Standard position means that the angle is measured starting from the positive x-axis.

The terminal side is where the angle ends after rotation.



Two angles are coterminal if the difference between them is a multiple of 360° (or 2π).

To find coterminal angles, you either:

- Add or subtract 360° to the original angle, or
- Add or subtract multiples of 360°.

We are looking for a **positive coterminal angle,** so we add **360° to 45°:**

360°+50°=410°

So, **410°** is a **positive coterminal angle** with **50°.**

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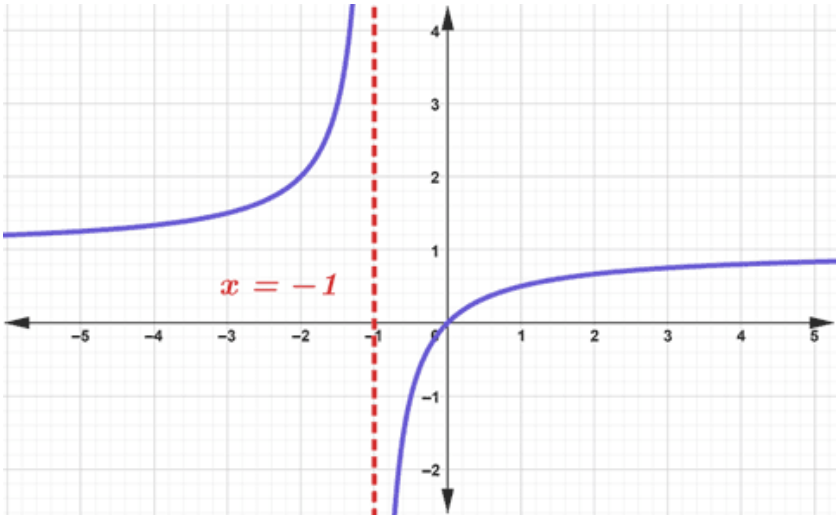
Question #2

Correct answer: A

A vertical asymptote happens when the graph tends toward an infinitely large or small value as x approaches a particular point. This is usually seen as the graph rapidly increasing or decreasing toward +∞ or -∞ near a specific vertical line.



Therefore, there is a vertical asymptote at x = -1.

Question #3

Correct answer: D

We are given two important pieces of information:

Regression equation:
y = 5x + 62

Correlation coefficient:
r = 0.88

Step 1: Interpret the slope (5)

In a regression equation, the number in front of x (5) is the slope.

The slope tells us how much the predicted score changes when study time increases by 1 hour.

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So:

For every 1 additional hour studied, the predicted score increases by 5 points.

This immediately eliminates choice A because it incorrectly says 62 points.

Step 2: Interpret r = 0.88

The correlation coefficient:

- Tells direction
- Tells strength

Because 0.88 is close to 1, the relationship is strong.
Because it is positive, the relationship is positive.

This supports choice B.

Step 3: Eliminate incorrect reasoning

B is incorrect because r does not represent a percentage of students.

C is incorrect because correlation does not prove causation.

E is incorrect because 0.88 is r, not r^2.
Only r^2 represents the percent of variation explained.

Final Conclusion

The only answer that correctly interprets the slope, the direction, and the strength, and avoids causation errors is option D.

Question #4

Correct answer: B

We are solving a quadratic equation that does not factor easily, so we use the quadratic formula:

$$x = (-b \pm \sqrt{(b^2 - 4ac)}) / (2a)$$

Step 1: Identify a, b, and c

The equation is:

$$x^2 - 6x + 13 = 0$$

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So:

a = 1
b = −6
c = 13

Step 2: Calculate the discriminant

The discriminant is the expression inside the square root:

$b^2 - 4ac$

Substitute the values:

$(-6)^2 - 4(1)(13)$

$36 - 52$

$= -16$

Step 3: Interpret the discriminant

Because the discriminant is negative (−16), this tells us:

- The equation has no real solutions
- The solutions will involve complex numbers
- We will need the imaginary unit i

Remember:

$\sqrt{(-1)} = i$
So $\sqrt{(-16)} = 4i$

Step 4: Substitute back into the quadratic formula

$x = (-(-6) \pm \sqrt{(-16)}) / 2(1)$

$x = (6 \pm 4i) / 2$

Step 5: Simplify completely

Divide both terms by 2:

$x = 3 \pm 2i$

Question #5

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Correct answer: B

Let's analyze what the story emphasizes.

Mariah faces doubt and failure.
Her community believes solar energy is unrealistic.
She continues experimenting despite criticism.
Her success changes how the community thinks.

The key idea is about how one person's persistence challenges accepted limits and leads to change.

Why the other answers are incorrect:

A. The story shows the opposite. Mariah succeeds without formal credentials.

C. The passage is not arguing that renewable energy is the only solution. That is too narrow and topic-based.

D. Mariah does not misunderstand innovation. She carefully studies and improves her design.

E. While the community resists change at first, the main focus is on transformation—not permanent resistance.

Question #6

Correct Answer: E

The phrase compares the sunset to an artist's masterpiece.

A masterpiece suggests:

- Careful design
- Beauty
- Intention

But the passage also adds:

"the light was fading"
"would not return until morning"

This introduces the idea that the beauty is temporary.

So the sunset is not just beautiful, it is beautifully created but fleeting.

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Why the Other Answers Are Incorrect

A: The passage does not suggest exaggeration. The tone is sincere.

B: The text does not imply distraction from responsibilities.

C: There is no evidence of celebration.

D: The description emphasizes intention and beauty, not randomness.

Question #7

Correct answer: A. Emotional appeal (pathos)

Paine uses emotionally charged language like “tyranny,” “hell,” and “FREEDOM” to stir patriotic feelings and encourage sacrifice. His aim is to inspire and rally people to persist through hardship.

Why the other choices are incorrect:

B. Use of factual statistics
– There are no statistics or numerical evidence in the excerpt. Paine relies on rhetoric, not data.

C. Logical reasoning (logos)
– Though persuasive, the passage lacks structured logical arguments; it’s driven by moral conviction and emotional force, not deductive reasoning.

D. Expert testimony
– Paine does not cite experts or external authorities. His authority is personal and ideological, not scholarly or technical.

Question #8

Correct answer: D

The sentence describes:

- Open countryside
- Wide and treeless land
- Thunder echoing across a landscape

A **plain** is a large, flat area of land.

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“Plane” usually means an airplane or a flat surface.
“Plan” means a strategy.
“Plein” and “plaine” are not correct English spellings in this context.

Because the sentence clearly describes open land, the correct answer is “**plain**.”

Question #9

Correct Answer: B.

The first sentence uses past perfect:
“had been planning”

This establishes that the story is being told in the past.

So the rest of the actions should also remain in the past.

Original problem:
“packed” (past)
“checks” (present)

That creates an inappropriate shift.

Option B keeps everything in past tense:

- had been planning
- packed
- checked

This keeps the timeline consistent.

Question #10

Correct Answer: C.

A strong topic sentence should:

- Clearly introduce the paragraph’s main claim
- Be specific
- Match the purpose (analytical research)
- Avoid being too broad or too personal

Let’s evaluate the options:

A is too general and does not present a focused claim.

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B lists features but does not present an argument.

D is personal opinion and informal for a research paper.

E is too broad and does not mention social media specifically.

C presents a balanced, analytical claim that previews the discussion of both benefits and consequences. It introduces complexity and sets up deeper analysis.

That makes C the best topic sentence.

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