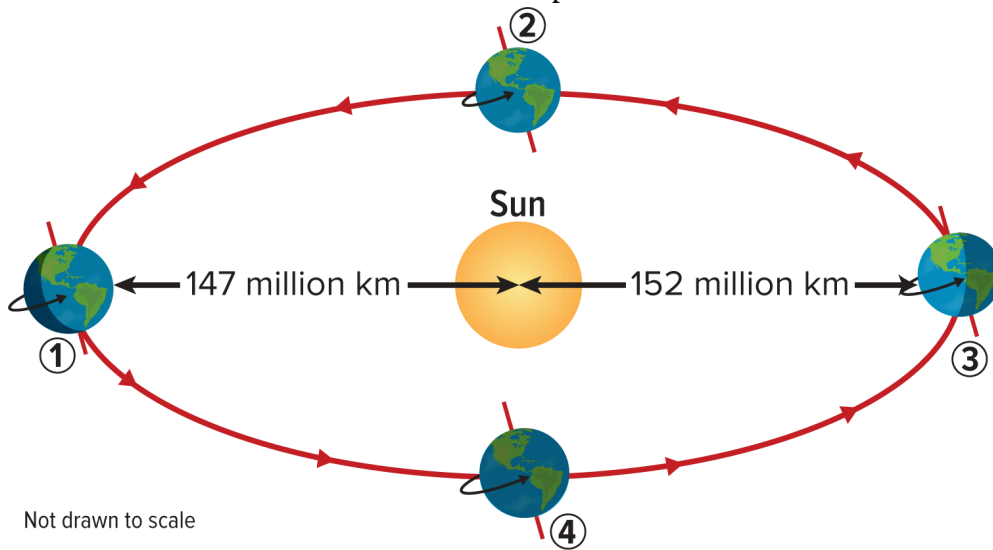


**Ch 11 Lesson 1 Review**

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**1) Infer:** The model shows Earth at different points in its orbit around the Sun.



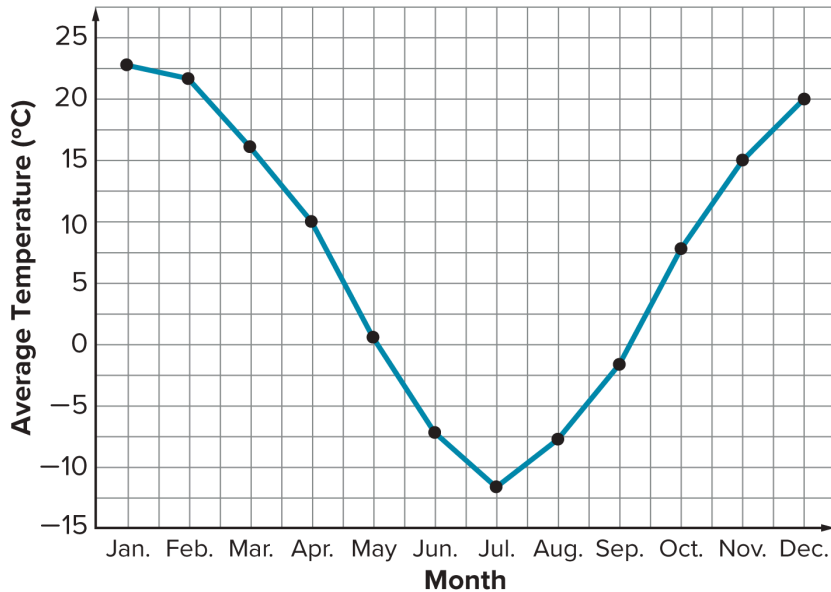
At which point is North America experiencing summer?

- A) Point 4 because North America receives the most intense solar energy.
- B) Point 1 because North America is closer to the Sun.
- C) Point 3 because North America is tilted toward the Sun.
- D) Point 2 because North America is tilted along Earth's orbit.

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- 2) The temperature of a location changes as Earth revolves around the Sun. The graph shows the temperature throughout the year for an unknown location.

**Average Temperature by Month for an Unknown Location**



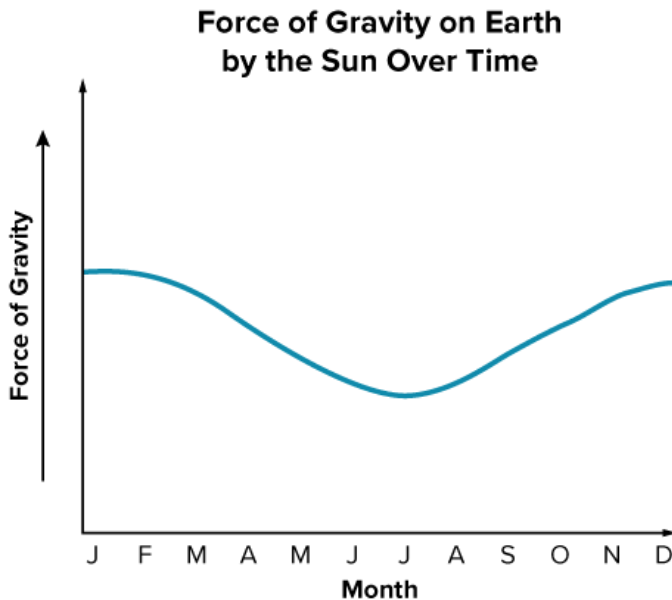
In which hemisphere is this location?

- A) Northern Hemisphere because January has the highest temperature
- B) Southern Hemisphere because January has the highest temperature
- C) Southern Hemisphere because July has the highest temperature
- D) Northern Hemisphere because July has the highest temperature

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- 3) The graph below shows how the Sun's gravitational pull on Earth changes over a period of time. Based on this graph, what evidence can you gather about the path of Earth's orbit, and why this occurs?



- A) Earth's orbit is circular because the distance between the Sun and Earth must change over time. Since distance impacts the strength of gravitational force between two objects, the graph shows a change in gravitational force.
- B) Earth's orbit is not quite circular because the distance between the Sun and Earth must change over time. Since distance impacts the strength of gravitational force between two objects, the graph shows a change in gravitational force.
- C) Earth's orbital path changes from year to year because the distance between the Sun and Earth must change over time. Since distance impacts the strength of gravitational force between two objects, the graph shows a change in gravitational force.
- D) Earth's orbital makes a different circle each month, because the distance between the moon and Earth must change over time. Since distance impacts the strength of gravitational force between two objects, the graph shows a change in gravitational force.
- 4) When Earth spins around an axis, what type of movement is this?
- A) orbit
- B) revolution
- C) rotation
- D) tilt

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- 5) Earth's temperature is warmer in areas of higher intensity solar energy reaching it. Solar intensity can spread more over a tilted region of Earth. It also spreads as it moves outward from the Sun over a greater distance away from the Sun. Although atmospheric properties also influence a planet's temperature, infer how temperature might differ between these planets: Earth, Mercury (which is closer to the Sun), and Neptune (which is farther from the Sun). Which statement is the **BEST** prediction of how temperature on these planets varies?
- A) Temperature would be highest on Mercury and lowest on Earth.
  - B) Temperature would be highest on Neptune and lowest on Mercury.
  - C) Temperature would be highest on Mercury and lowest on Neptune.
  - D) Temperature would be highest on Earth and lowest on Neptune.