



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

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### QUESTION 1

Which of the following would, if true, most help substantiate the highlighted claim in the first paragraph?

- A. The closer a planet is to its parent star, the more likely it is to be obscured by glare in Hubble images of that star.
- B. Astronomers calculate that most stars that have planets have at least one planet that orbits at a distance no less than that between HR 8799 and its outermost planet.
- C. Many of the young stars photographed by Hubble produce at least as much mattered light as does HR 8799 though they distribute that light over a much area.
- D. In 1996, the astronomers examining the Hubble images were able to discern very few extrasolar planets despite having included a large number of images of young stars in their examinations.
- E. A large proportion of the stars that are shown in the archived Hubble images and suspected of spawning planets are at least as old as, if not substantially older than, HR 8799.

Correct Answer: E

Previously unknown extrasolar planets—planets outside our solar system—probably await discovery in archival images taken by the Hubble Space Telescope. A new technique allows astronomers to model the amount and distribution of scattered light produced by young stars suspected of spawning planets and remove that light from images of those stars. Once the glare of the parent stars' light is removed, planets may show up in images already taken by Hubble's infrared cameras, since heat emitted by planets produces telltale wavelengths of infrared light. In 2008, astronomers using powerful Earth-based telescopes were able to detect three planets orbiting the star HR 8799 that were not previously detected by astronomers who examined infrared Hubble images of the star in 1998. David Lafrentere—a member of the team of astronomers who detected the planets in 2006—then applied the new technique to those Hubble images and managed to uncover the outermost of the three planets. The others, lying closer to the star, still could not be distinguished against the background of the star's light. Lafrentere's work has helped reaffirm the importance of maintaining long-term archives, and—because Hubble's infrared cameras record some wavelengths of light that cannot penetrate through the atmosphere to reach Earth's surface—revealed new information about the outermost of HR 8799's planets.

### QUESTION 2

Economists work with supply and demand curves that show the price  $P$  of goods as a function of the quantity  $Q$  of those goods supplied or demanded. For a certain product, the supply curve is  $P = aQ + b$  and the demand curve is  $P = \frac{k}{Q}$ , where  $a$ ,  $b$ , and  $k$  are nonzero constants. The point at which these curves intersect in the  $(Q, P)$  coordinate plane is referred to as the *equilibrium point*, and for this product the equilibrium point is  $(10, 5)$ . For this product, what are the values of  $a$ ,  $b$ , and  $k$ ?

- (1) The point  $(8, 1)$  is on the supply curve.
- (2) The point  $(25, 2)$  is on the demand curve.

- A. Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- B. Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.
- E. Statements (1) and (2) TOGETHER are NOT sufficient.



Correct Answer: A

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### QUESTION 3

If  $x = 3 - \sqrt{2}$ , which of the following has the value 0 for some integer  $k$ ?

- A.  $x^2 + kx - 7$
- B.  $x^2 - 6x + k$
- C.  $x^2 + 6x + k$
- D.  $x^2 - 7x + k$
- E.  $x^2 + 7x + k$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: B

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### QUESTION 4

Mark Twain's financial troubles stemmed from a lavish lifestyle and poor investments in such a dubious invention as a "patent baby clamp," designed to prevent infants from kicking off their blankets, and an extraordinarily complicated and undependable typesetting machine.

- A. poor investments in such a dubious invention as
- B. poor investments in such dubious inventions as
- C. included such poor investments as in the dubious inventions of
- D. such poor investments, as in the invention of
- E. such poor investments in dubious inventions as

Correct Answer: B

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### QUESTION 5



A rectangular picture frame is hanging flat against a vertical wall so that the two longer sides of the frame are parallel to the horizontal floor. The highest points on the frame are 2.5 meters above the floor, and the lowest points on the frame are 1.25 meters above the floor. What is the length, in meters, of each of the frame's longer sides?

(1)

The ratio of the length of the frame's longer sides to the length of the frame's shorter sides is 8:5.

(2)

The total area of the region within the outside edges of the frame is 2.5 square meters.

A.

Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

B.

Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

C.

BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

D.

EACH statement ALONE is sufficient.

E.

Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer: A

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