

PCAT-SECTION3^{Q&As}

Pharmacy College Admission Test - Quantitative

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Solve for x: x2 12 x=36

A. 2

B. 3

C. 4

D. 6

Correct Answer: D

The first thing to do in solving the equationx2 12x=36 forxis to rewrite the equation by adding 36 to both sides and then to express the equation in terms of factors: $x2 12x+36 = 0 (x6) \cdot (x 6) = 0$ Solving the equation forxyieldsx= 6.

QUESTION 2

What is the equation of a line that passes through the point (2, 3) and has a slope of -1/2?

A.
$$y = -\frac{1}{2}x + 2$$
 B. $y = -\frac{1}{2}x - 2$ C. $y = \frac{1}{2}x + 2$ D. $y = \frac{1}{2}x - 2$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 3

Evaluate the following derivative:

$$\frac{d}{dx}\left(6x^4 - 4x^3\right)$$

A. 24x3 12x2

B. 24x3 + 12x2

C. 24x3 12x2



D. 24x3 + 12x2

Correct Answer: C

QUESTION 4

What is the probability of randomly selecting a ten card from a standard deck of cards?

A. 1/52

B. 1/13

C. 12/13

D. 51/12

Correct Answer: B

To determine the probability that a selected card is a ten, you should first note that a card can be selected from a deck inn= 52 different ways. Since there are four ten cards, one ten for each of the four suits, a ten can be drawn from the deck ins= 4 different ways. Thus, the probability that the selected card is a ten is:

$$p = \frac{s}{n} = \frac{4}{52} = \frac{1}{13}.$$

QUESTION 5

Chemistry students performed nine volume measurements of a solution during a lab and obtained the

following results:

{2.4mL, 3.2mL, 3.7mL, 3.7mL, 4.5mL, 6.8mL, 7.3mL, 8.1mL, 12.2mL}

What is the median of the data set?

A. 3.7mL

- B. 4.5mL
- C. 5.8mL
- D. 9.8mL
- Correct Answer: B

The median is the middle or center value of the data set arranged in ascending numerical order, or 4.5mL.



Evaluate the following indefinite integral: A. Option A

$$\int t^2 \left(\frac{5}{t} - \frac{t}{5}\right) dt$$

A.
$$\frac{5t^2}{2} + \frac{t^4}{20} + C$$
 B. $\frac{5t^2}{2} + \frac{t^4}{20} - C$ C. $-\frac{5t^2}{2} - \frac{t^4}{20} + C$ D. $-\frac{5t^2}{2} + \frac{t^4}{20} + C$

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

Correct Answer: B

QUESTION 7

Evaluate the following derivative:

$$\frac{d}{dx}\left(25-7x^3\right) \text{ at } x=-2$$

A. 35

B. 84

- C. -84
- D. 120
- Correct Answer: C

You first must calculate the derivative before you can evaluate the derivative at a given point.

$$\frac{d}{dx}\left(25-7x^3\right) = -21x^2.$$

The derivative can now be evaluated at x=2 by plugging in the value of 2 for x in the derivative or



$$\frac{d}{dx}(25-7x^3)\Big|_{x=-2} = -21 \cdot (-2)^2 = -21 \cdot 4 = -84.$$

Express in scientific notation: 13.9

- A. 1.39 × 101
- B. 1.39 × 101
- C. 13.9 × 101
- D. 13.9 × 101
- Correct Answer: B

In scientific notation, the number 13.9 is 1.39×101 .

QUESTION 9

- A. -7
- B. 2
- C. 6
- D. 7

Correct Answer: D

QUESTION 10

Evaluate the following derivative: A. Option A

$$\frac{d}{dx}\left(\frac{15}{3x^8}\right)$$



B. Option B



- C. Option C
- D. Option D

Correct Answer: A

QUESTION 11

Solve for x: x3 64x = 0

A. x=± 8

B. x=± 6

C. x=± 4

D. x=± 2

Correct Answer: A

In order to solve the equationx3 64x= 0 forx, you can apply factor analysis and solve for x in each term:

$$\frac{x^3}{x} - \frac{64x}{x} = \frac{0}{x}$$
$$x^2 - 64 = 0$$
$$x = \pm 8.$$

QUESTION 12

Evaluate the following definite integral:

$$\int_{2}^{4} \left(x^4 - 6x\right) dx$$

A. 123.6

B. 162.4

C. 183.7

D. 250.2

Correct Answer: B



You begin by solving the integral and then evaluating the result between the limits of 2 and 4.

$$\int_{2}^{4} (x^{4} - 6x) dx = \left(\frac{x^{5}}{5} - \frac{6x^{2}}{2}\right) = \left(\frac{x^{5}}{5} - 3x^{2}\right) \Big|_{2}^{4} = \left(\frac{(4)^{5}}{5} - 3(4)^{2}\right) - \left(\frac{(2)^{5}}{5} - 3(2)^{2}\right)$$
$$= \left(\frac{1024}{5} - 48\right) - \left(\frac{32}{5} - 12\right) = \frac{812}{5} = 162.4$$

QUESTION 13

What is the slope of a line that passes through the points (3, 3) and (3, 3)?

A. 3

В. -3

C. 0

D. undefined

Correct Answer: C

The slope of a line that passes through the points (3, 3) and (3, 3) can be found by:

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 3}{3 - (-3)} = \frac{0}{6} = 0.$$

QUESTION 14

The ratio of boys to girls in the graduating class of a school is 3:2. If there are a total of 430 students in the class, how many girls are in the graduating class?

A. 74

B. 86

C. 172

D. 215

Correct Answer: C

To find the total number of girls in the science class, we must first find the fraction of students in the class who are girls. For every set of 5 students, 2 students are girls, yielding a fraction of 2/5. Thus, the total number of girls in the class is



$$\frac{2}{5} \times 430 = 172.$$



Evaluate the following derivative

$$\frac{d}{dx} \left(24x^3 - 9x^2 + 3x - 11 \right) \text{ at } x = 3.$$

A. 597

B. 325

C. 154

D. 96

Correct Answer: A

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