

PCAT-SECTION3Q&As

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QUESTION 1

What is the slope of a line that passes through the points (0, 4) and (4, 0)?

- A. 4
- B. -1
- C. 0
- D. undefined

Correct Answer: B

The slope of a line that passes through the points (0, 4) and (4, 0) can be found by:

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - 4}{4 - 0} = -\frac{4}{4} = -1.$$

QUESTION 2

$$\left(\frac{4}{3}\right)^2 + \left(\frac{2}{4}\right)^2 =$$

- A. 96/36
- B. 84/36
- C. 73/36
- D. 65/36

Correct Answer: C

The sum of

$$\left(\frac{4}{3}\right)^2 + \left(\frac{2}{4}\right)^2 =$$

Canbe found by first computing the value of each term

$$\left(\frac{4}{3}\right)^2 = \left(\frac{4^2}{3^2}\right) = \frac{16}{9}$$

$$\left(\frac{2}{4}\right)^2 = \left(\frac{2^2}{4^2}\right) = \frac{4}{16} = \frac{1}{4}$$

$$\left(\frac{4}{3}\right)^2 + \left(\frac{2}{4}\right)^2 = \frac{16}{9} + \frac{1}{4} = \frac{64+9}{36} = \frac{73}{36}.$$

QUESTION 3

 $1/3 \div 5/9 =$

A.
$$\frac{3}{5}$$

B.
$$\frac{5}{3}$$

C.
$$\frac{5}{9}$$

D.
$$\frac{1}{9}$$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The quotient of the two fractions can be found by writing the fractions as:

$$\frac{1}{3} \div \frac{5}{9} = \frac{\frac{1}{3}}{\frac{5}{9}} = \left(\frac{1}{3}\right) \cdot \left(\frac{9}{5}\right) = \frac{3}{5}.$$

QUESTION 4

Evaluate the following derivative:

$$\frac{d}{dx}(3x^3-2x^2)$$

A.
$$3x^2 + 2x$$
 B. $3x^2 - 2x$ C. $9x^2 - 4x$ D. $9x^2 + 4x$

B.
$$3x^2 - 2x$$

C.
$$9x^2 - 4x$$

D.
$$9x^2 + 4x$$

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

Correct Answer: C

The derivative of a polynomial is the sum of the derivatives of the terms of the polynomial, or:

$$\frac{d}{dx}(3x^3 - 2x^2) = \frac{d}{dx}(3x^3) - \frac{d}{dx}(-2x^2)$$
$$= \frac{d}{dx}(3x^3) - \frac{d}{dx}(2x^2)$$
$$= 9x^2 - 4x.$$

QUESTION 5

Which line is parallel to the line y + 3x = 8?

A.
$$y + \frac{1}{3}x = -5$$

A.
$$y + \frac{1}{3}x = -5$$
 B. $y - \frac{1}{3}x = -5$ C. $y + 3x = -5$ D. $y - 3x = -5$

C.
$$y + 3x = -5$$

D.
$$y - 3x = -5$$

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

Correct Answer: C

QUESTION 6

What are the roots of the equation x2 7x 18 = 0?

- A. 4.5, 1
- B. 2, 4.5
- C. 3.5, 8
- D. 1, 4.5

Correct Answer: A

QUESTION 7

Evaluate the following derivative: A. Option A

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

- A. $-\frac{40}{x^9}$
- B. $\frac{40}{r^9}$
- C. $-\frac{40}{x^{-9}}$
- D. $\frac{40}{x^{-9}}$

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

Correct Answer: A

QUESTION 8

A student obtained an average of 86 for a series of seven assignments. Six of the grades were 85, 78, 83, 91, 89, and 86. The grade of the seventh assignment is:

- A. 74
- B. 86
- C. 90
- D. 98

Correct Answer: C

From the information in the problem,

$$Average = \frac{Sum \text{ of Terms}}{Number \text{ of Terms}}$$

$$86 = \frac{85 + 78 + 83 + 91 + 89 + 86 + x}{7} = \frac{512 + x}{7}$$
$$x = 86 \times 7 - 512 = 602 - 512 = 90.$$

QUESTION 9

A. -7

B. 2

C. 6

D. 7

Correct Answer: D

QUESTION 10

What is the probability of selecting a face card of a spade suit from two standard decks of cards?

A. 3/52

B. 6/52

C. 6/104

D. 46/104

Correct Answer: C

You are asked to determine the probability of randomly selecting one face card (king, queen, or jack) of a spade suit from two standard decks of cards. Because there are two decks of cards, a single card can be selected from two decks inn= 104 different ways. Since there are 3 face cards of a spade suit in one deck of cards, such a card can be drawn from the two decks ins= 6 different ways. Thus, the probability that the selected card is a face card of a spade suit is:p=s/n= 6/104

QUESTION 11

What are the roots of the quadratic equation $3x2 \times 10 = 0$?

A.
$$x = \sqrt{2}$$
, $-\frac{5}{3}$ **B.** $x = 2$, $-\sqrt{\frac{5}{3}}$ **C.** $x = -2$, $\sqrt{\frac{5}{3}}$ **D.** $x = 2$, $-\frac{5}{3}$

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

Correct Answer: D

QUESTION 12

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: $x2 \cdot 12x + 36 = 0$ (x6) · (x6) = 0 Solving the equation forxyieldsx= 6.

QUESTION 13

A bag of Skittles® contains 10 red, 9 yellow, 8 orange, 6 green, and 4 blue colored candies. What is the probability of randomly choosing an orange-colored candy from the bag?

- A. 8/37
- B. 37/8
- C. 8/27
- D. ¾

Correct Answer: A

The probability of selecting a single orange-colored candy from a bag of Skittles® requires 8 successful outcomes out of 37 possible outcomes. So the probability of selecting a single orange- colored candy is: p= 8/37

QUESTION 14

If and x/y = 8 and x=64, then what is the sum x + y?

- A. 56
- B. 64
- C. 72
- D. 81

Correct Answer: C

From the first equation, multiply both sides by yresulting in x=8y.

Becausex= 64, you can write

64 = 8y

Y=8

Substituting the given information regardingxandyinto its sum yields:

x+y=64+8=72.

QUESTION 15

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.
$$\frac{5t^2}{2} + \frac{t^4}{20} - 0$$

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

D.
$$-\frac{5t^2}{2} + \frac{t^4}{20} + 6$$

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

Correct Answer: B

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