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QUESTION 1

On a single roll of a die, what is the probability of not getting a 2?

- A. 1/6
- B. 3/6
- C. 4/6
- D. 5/6

Correct Answer: D

QUESTION 2

Evaluate the following indefinite integral:

 $\int (8-t^3)dt$

A.
$$-8t + \frac{t^4}{4} + C$$
 B. $-8t - \frac{t^4}{4} + C$ **C.** $8t - \frac{t^4}{4} + C$ **D.** $8t + \frac{t^4}{4} + C$

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

Correct Answer: C

QUESTION 3

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 4

What is the probability of selecting an ace of a red suit from a standard deck of cards?

A. 1/52

B. 2/52

C. 48/52

D. 50/52

Correct Answer: B

To determine the probability that a randomly selected card is an ace of a red suit, you should first note that a card can be selected from a deck inn= 52 different ways. Since there are two such aces (ace of hearts and ace of diamonds), then an ace can be drawn from the deck ins= 2 different ways. Thus, the probability that the selected card is an ace is:

$$p = \frac{s}{n} = \frac{2}{52}.$$

QUESTION 5

Evaluate the following derivative:

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

A. $3x^2 + 2x$

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:

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

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