

PCAT-SECTION3^{Q&As}

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QUESTION 1

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 2

Solve for x: $(4x \ 1)2 = 121$

A. -3

B. 4

C. 3

D. 6

Correct Answer: C

This equation can be solved by first taking the square root of both sides of the equation $(4x 1)^2 = 121$ or



$$\sqrt{\left(4x-1\right)^2} = \sqrt{121}$$

4x - 1 = 11

Solving for *x* yields x = 3.

QUESTION 3

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 4

A7	
B. 2	
C. 6	
D. 7	
Correct Answer: D	

QUESTION 5

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:

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

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