PCAT-SECTION3 Q&As

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QUESTION 1

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

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 2

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

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

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 3

Evaluate the following derivative: d/dx(5x4)

A. 0

B. 5x4

C. 20x3

D. 5x3

Correct Answer: C

QUESTION 4

What are the roots of the quadratic equation 3x2 x 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 5

What is the probability that two cards drawn from a deck of cards are face cards (king, queen, or jack) of any suit if the first card drawn is replaced before the second card is drawn?

A. 9/169

B. 1/16

C. 3/13

D. 1/26

Correct Answer: A