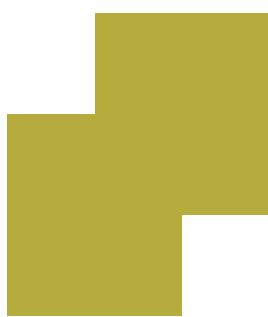


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Answer the following questions :Question (1) : Choose the correct answer from those given:

- 1) If a regular die is tossed once, the probability of appearance of an odd number equals.....

$$\left[\frac{1}{3}, \frac{1}{2}, 1, 3 \right]$$

- 2) The domain of the function $n(x) = \frac{x-4}{7}$ is [R , R - {4} , R - {7} , R - {7, 4}]

- 3) The ordered pair which satisfies the two equations $xy = 2$, $x - y = 1$ is

$$\left[(1, 1), (2, 1), (1, 2), \left(\frac{1}{2}, 1\right) \right]$$

- 4) If A , B are two mutually exclusive events, then $P(A \cap B) = \dots$

$$\left[1, \varnothing, 0.56, 0 \right]$$

- 5) The additive inverse of the algebraic fraction $\frac{3}{x^2 + 1}$ is

$$\left[\frac{-3}{x^2 + 1}, \frac{x^2 + 1}{3}, \frac{x^2 + 1}{-3}, \frac{3}{x^2 - 1} \right]$$

- 6) The two straight lines $x = 3$ and $y = 5$ are intersecting at the point

$$\left[(3, 5), (0, 5), (3, 0), (5, 3) \right]$$

Question (2)

- a) Simplify the algebraic fraction: $\frac{x+1}{x^2 + 3x + 2}$ showing its domain.

- b) Find the solution set of the two equations: $x + y = 4$ and $2x - y = 2$ algebraically.

Question (3)

- a) By using the general formula: find the solution set of the equation :

$$x^2 - 2x - 4 = 0 \text{ rounding the result to one decimal place.}$$

- b) If A and B are two events from the sample space of a random experiment where

$$P(A) = 0.7, P(B) = 0.4 \text{ and } P(A \cup B) = 0.8, \text{ then find : first : } P(A') \text{ second : } P(A \cap B)$$

Question (4)

- a) Graph the curve of function f, where $f(x) = x^2 - 2x + 1$ taking $x \in [-1, 3]$ then
from the graph find the solution set of the equation $x^2 - 2x + 1 = 0$

- b) Find n(x) in the simplest form showing the domain where :

$$n(x) = \frac{2x + 10}{x^2 + 7x + 10} + \frac{x + 3}{x^2 + 5x + 6}$$

Question (5)

- a) Find the solution set of the two equations together in $R \times R$:

$$x + y = 7 \text{ and } x^2 + y^2 = 25$$

- b) Find n(x) in the simplest form showing the domain where:

$$n(x) = \frac{x^2 + 2x - 3}{x + 3} \div \frac{x^2 - 1}{x + 1}$$