



MATHS

BOOKS - HT Olympiad Previous Year Paper

CLASS 9 SAMPLE PAPER FINAL 4

Mathematics

1. The value of k, if (x-1) is factor of

 $2x^3 + x^2 - 4x + k$, is -

A. - 1

B. 3

C. 1

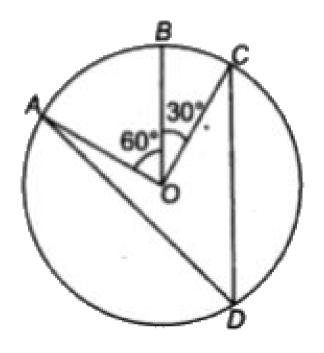
D. 2

Answer: C



Watch Video Solution

2. In figure A, B and C are three points on a circle with centre 0 such that $\angle \angle$ BOC = 30° and \angle \angle AOB = 60°. If D is a point on the circle other than the arc ABC, find \angle ADC



A. 40°

B. 100°

C. 45°

D. 60°

Answer: C



Watch Video Solution

3. Eleven bags of wheat flour, each marked 5 kg, actually contained the following weights of flour (in kg):

4.97 5.05 5.08 5.03 5.00 5.06 5.08 4.98 5.04 5.07 5.00

Find the probability that any of these bags chosen at random contains more than 5 kg of flour.

- A. 7/11
- B. 4/11
- C.10/11
- D. 5/11

Answer: A



Watch Video Solution

4. If 2 cubes are connected on their bases, the Total Surface Area(TSA) of the new object formed is -

- A. Less than the sum of TSA of two cubes
- B. More than the sum of TSA of two cubes
- C. Equal to the sum of TSA of two cubes
- D. None of these

Answer: A



Watch Video Solution

5. The remainder when a^3+2a^2-3a+2 is divided by a - 1 is -

A. 2

 $\mathsf{B.}-2$

C. 1

D. 0

Answer: A



Watch Video Solution

6. Which point satisfies the equation

3x - 4y = 7?

A.
$$(-5, 2)$$

B.
$$(5, 2)$$

$$C.(3, -4)$$

Answer: B



Watch Video Solution

7. The sum of the probabilities of all possible outcomes of an event is

- A. less than 1
- B. greater than 1
- C. 1
- D. can't say anything

Answer: C



Watch Video Solution

8. Write the coefficients of x^3 :

$$\frac{4}{7}x^3 + x^2 - 5$$

A.
$$\frac{4}{7}$$

$$B.-5$$

$$\mathsf{C.}-4$$

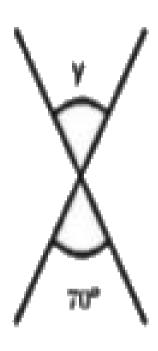
D. 1

Answer: A



Watch Video Solution

9. In the given figure, find the value of y-



A. 70°

B. 100°

C. 30°

D. 50°

Answer: A



Watch Video Solution

10. The longest chord of a circle divides the circle in ____.

- A. Two parts
- B. Two equal parts
- C. Two sectors

D. None of these

Answer: B



Watch Video Solution