**Multiple-Choice Questions:**

1. What is the value of cos( 60˚ )?

A) 0.5

B) 0.707

C) 1.0

D) 0.866

Answer: D) 0.866

1. What is the derivative of f(x) = 3x² + 2x - 1 with respect to x?

A) 6x + 2

B) 3x² + 2

C) 6x + 2x - 1

D) 6x + 2

Answer: A) 6x + 2

**Short-Answer Questions:**

1. Define the term "standard deviation" in statistics.

Answer: Standard deviation measures the dispersion or spread of a dataset from its mean. It is calculated as the square root of the variance.

1. If rolling a fair six-sided die, what is the probability of rolling an even number?

Answer: There are 3 even numbers (2, 4, 6) on a six-sided die. So, the probability = 1/2

**Fill-in-the-Blank Questions:**

1. The smallest positive integer that is divisible by both 8 and 12 is called the \_\_\_\_\_\_\_\_\_ of 8 and 12.

Answer: least common multiple (LCM)

1. The process of finding the area under a curve between two points is called \_\_\_\_\_\_\_\_\_.

Answer: integration