Assignment 1

Due on 2020-12-12, 12:59 IST

1. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - If a scalar field, the maximum value is at the origin.

2. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The time taken to cross a distance is inversely proportional to the velocity of the object.

3. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The temperature at a point is directly proportional to the distance from the source.

4. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The pressure at a point is directly proportional to the distance from the source.

5. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The velocity at a point is directly proportional to the distance from the source.

6. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The acceleration at a point is directly proportional to the distance from the source.

7. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The magnetic force on a charged particle is directly proportional to the distance from the source.

8. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The electric force on a charged particle is directly proportional to the distance from the source.

9. True or False: Consider the statements, and write if it is true or false. If true, mark the correct question in the box; if false, mark the next question as true.

   - The gravitational force on a mass is directly proportional to the distance from the source.