

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

Rapid Fire Quiz

State which of the following statements are true or false by tick (✓) marking in the box.

- | | True | False |
|--|--------------------------|--------------------------|
| 1. A polynomial having two variables is called a quadratic polynomial. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. A cubic polynomial has at least one zero. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. A quadratic polynomial can have at most two zeroes. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. If $r(x)$ is the remainder and $p(x)$ is the divisor, then $\deg r(x) \leq \deg p(x)$. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. If the zeroes of a quadratic polynomial $ax^2 + bx + c$ are both negative, then a , b and c all have the same sign. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. The quadratic polynomial $x^2 + kx + k$ can have equal zeroes for some odd integer $k > 1$. | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. If the graph of a polynomial intersects the x -axis at exactly two points, it can be a cubic polynomial. | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. If all three zeroes of a cubic polynomial $x^3 + ax^2 - bx + c$ are positive, then at least one of a , b and c is non-negative. | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. The degree of a quadratic polynomial is less than or equal to 2. | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Degree of a constant polynomial is not defined. | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Degree of a zero polynomial is not defined. | <input type="checkbox"/> | <input type="checkbox"/> |