

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date:

Name:

ID No.....

Performance Test

1. Write the correct answer in each of the following:

(i.) If $p(x) = 3x^2 + 6x - 24$, then $p(-2)$ is equal to

- (a) -48 (b) 24 (c) -24 (d) -12

(ii.) The value of $300^2 - 299^2$ is

- (a) 1^2 (b) 499 (c) 600 (d) 599

(iii.) Rationalising factor of $\frac{1}{7 - \sqrt{12}}$ is

- (a) $12 - \sqrt{7}$ (b) $12 + \sqrt{7}$ (c) $7 - \sqrt{12}$ (d) $7 + 2\sqrt{3}$

(iv.) If $x - 2$ is a factor of the polynomial, $3x^2 + Rx - 24$ then the value of R is

- (a) -6 (b) 4 (c) 8 (d) 6

(v.) If $\frac{x}{y} + \frac{y}{x} = 1$, ($x, y \neq 0$), the value of $x^3 + y^3$ is

- (a) 1 (b) -1 (c) $\sqrt{7}$ (d) 0
