

## Algebraic Formulas And Applications

Sr	Questions	Answers Choice
1	$x + 5/x^2 - 6x - x/x - 6 = ?$	A. $5 - x - x^2/x^2 - 6x$ B. $5 + x - x^2/x^2 - 6x$ C. $5 + x - x^2/x^2 + 6x$ D. $x^2 - 6x^5 + x - x^2$
2	An expression which involves numbers and letters together with operational signs is called:	A. Polynomial B. Algebraic expression C. rational expression D. Irrational expression
3	Which of the following expression is not a rational expression?	A. $3\sqrt{x} + 1/3\sqrt{x} + 1$ B. $x^3 + 1/x + 1$ C. $x + 1 / 3x^3 + x^2 + 3$ D. $2x^2/3y^3$
4	The lowest term of $8x^2y^2/12xy^5$ is:	A. $2x^2/3y^3$ B. $3x^3/2y^2$ C. $3x^2/2y^3$ D. $4c^2/9y^3$
5	Conjugate binomial surd of $a + b\sqrt{x}$ is	A. $a + bx$ B. $a - b\sqrt{x}$ C. $\sqrt{a} + \sqrt{bx}$ D. $a - bx$
6	if $a + b = 8$ and $a - b = 3$ , then $ab = ?$	A. -40 B. 24 C. 18 D. 8
7	Which of the following is a pure surd?	A. $4\sqrt{3}$ B. $5\sqrt{7}$ C. $1/7\sqrt{3}$ D. 4
8	$2(a^2 + b^2) = ?$	A. $(a^2 + b^2) - 4ab$ B. $(a + b)^2 + (a - b)^2$ C. $(a + b + c)^2$ D. $(a + b)^2 - (a - b)^2$
9	if $P(x) = 4x^3 + 3x^2 + 5x + 1$ , then $P(1)$ as:	A. 13 B. 15 C. 17 D. 19
10	Type of algebraic expressions are:	A. Polynomial , Rational expression B. Rational expression, irrational expression C. irrational expression , Polynomial D. Polynomial , Rational expression , Irrational expression
11	An irrational number that contains a radical sign is called:	A. Polynomial B. surd C. equality D. inequality
12	The symbol " i.e " stands for:	A. therefore B. because C. that is D. correspondence
13	if $x^2 = a$ , then:	A. $x = a$ B. $x = \pm a$ C. $x = \sqrt{a}$ D. $x = \pm\sqrt{a}$
14	Which of the following is a proper rational expression?	A. $2x^3 + 3x^2 + 3/x^2 + x + 3$ B. $3x^2 + 4x + 5/ 2x^4 + 1$ C. $x^3 + 8/x + 1$ D. $2\sqrt{x} + 3/2\sqrt{x} - 3$
		A. irrational expression

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An expression which can be written in the form of  $P(x)/Q(x)$ ,  $Q(x) \neq 0$ , Where  $P(x)$  and  $Q(x)$  are polynomials in "x" is called a:

- B. rational expression
  - C. proper rational expression;
  - D. improper rational expression
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