



ST. LAWRENCE HIGH SCHOOL

TOPIC – Polynomials

Subject : Mathematics	Class-9	F	. M. 15	
WORKSHEET NO 17	First teri	m D	Date: 20.03.2021	
Q.1) <u>Choose the correct option</u> :			(1x15=15)	
i) Which of the followings is a polynomial in one variable?				
a) $x + \frac{2}{r} + 3$	b) $3\sqrt{x} + \frac{2}{\sqrt{x}} + 5$	c) $\sqrt{2} x^2 - 3\sqrt{x} + 6$	6 d) x ¹⁰ + y ⁵ + 8	
ii) Which of the followings is a polynomial?				
a) x - 1	b) $\frac{x-1}{x+1}$	c) $x^2 - \frac{2}{x^2} + 5$	d) $x^2 + \frac{2x^3}{\sqrt{x^2}} + 6$	
iii) Which of the followings is a linear polynomial?				
a) x + x ²	b) x + 1	c) 5x ² - x + 3	d)x + $\frac{1}{r}$	
iv) Which of the followings is a second degree polynomial?				
a) \sqrt{x} - 4	b) x ³ + x	c) x ³ + 2x + 6	d) x ² + 5x + 6	
v) The degree of the polynomial $\sqrt{1}$				
a) $\frac{1}{2}$	b) 2	c) 1	d) 0	
vi) If the polynomial $x^3 + 6x^2 + 4x + $			11 4 2	
a) -6	b) -7	c) -8	d) -10	
vii) In the polynomial $f(x)$ if $f(-\frac{1}{2}) = 0$				
a) 2x -1 viii) (x – 1) is factor of the polynomia	b) $2x + 1$	c) $x - 1$	d) x + 1 will be a factor of	
a) $f(x)g(x)$	b) $- f(x) + g(x)$	c) $f(x) - g(x)$	d) $\{f(x) + g(x)\}g(x)$	
ix) (x+1) is a factor of the polynomi				
a) n is a positive odd integer b) n is a positive even integer				
c) n is a negative integer		a positive integer		
x) If $n^2 - 1$ is a factor of the polyno a) $a + c + e = b + d$			d+e d)b+c+d=a+e	
xi) Which of the following expression		,		
a) $x^2 + x$	b) x + 4	c) $x^2 - 3x + 2$	d) x + $\frac{1}{x}$	
xii) Which of the following is a quac	lratic polynomial?		x	
a)x \sqrt{x} +1	b) $x^3 + x^2$	c) x ² + 3x + 5	d) x(x ² + 1)	
xiii) The polynomial x ² – x – 12 is				
a) divisible by x+2	b) divisible by x+3	c) divisible by x+4	d) divisible by x - 2	
xiv) x+3 is a factor of $x^3 + 6x^2 + 12 x$	+ k, if k is equal to b) - 6	c) 9	d) - 0	
a) 6 b) - 6 c) 9 d) - 9 xv) If 30 is the remainder when $x^3 + 3x^2 + 3x + a$ is divided by $x - 2$, then the value of a will be				
a) 1	b) 2	c) 3	d) 4	

-Chaitali Roy