



INDIAN SCHOOL AL WADI AL KABIR

Department: Mathematics

Class XI Bridge Course WS-2

Roll No.	Name:	Class & Section:	Date:
Sr. No	Question		
1	$(a + b)^3$		
2	$(a + b)^3$		
3	$(a+b)(a-b)$		
4	Factorize: $125x^3 - 27y^3$		
5	Factorize: $x^2 - 5x + 6$		
6	Factorize: $6x^2 - 19x - 7$		
7	Factorize: $x^3 - 7x + 6$		
8	Factorize: $50x^2 - 98y^2$		
9	Factorize: $x^3 - x$		
10	Simplify: $(a + b)^2 + (a - b)^2$		
11	Simplify: $(a + b)^3 - (a - b)^3$		
12	$P(x) = 4x^3 - 3x^2 + 5x - 7$, then $P(-1)$		
13	$P(x) = 2x^3 - 3x^2 + 12x - 7$. Is $x+1$ a factor of $P(x)$? Why?		
14	Find the zeros of $4x^2 - 4x - 3$		

15	Solve: $5x^2 - 12x + 4 = 0$
16	Solve: $5x+3y=7$ & $3x+5y=1$
17.	Solve: $3(x-1)+2(y+1)=6$ $2(x+1)-5(y-1)=-1$
18.	The sum of digits of a two-digit number is 9 and product of the digits is 14. Find the number
19.	Two positive numbers differ by 4 and the difference of their reciprocals is $\frac{4}{21}$. Find the numbers.
20.	The sum of area of two squares is 468 square metre. If the difference of their perimeters is 24m, find the lengths of sides of these squares.