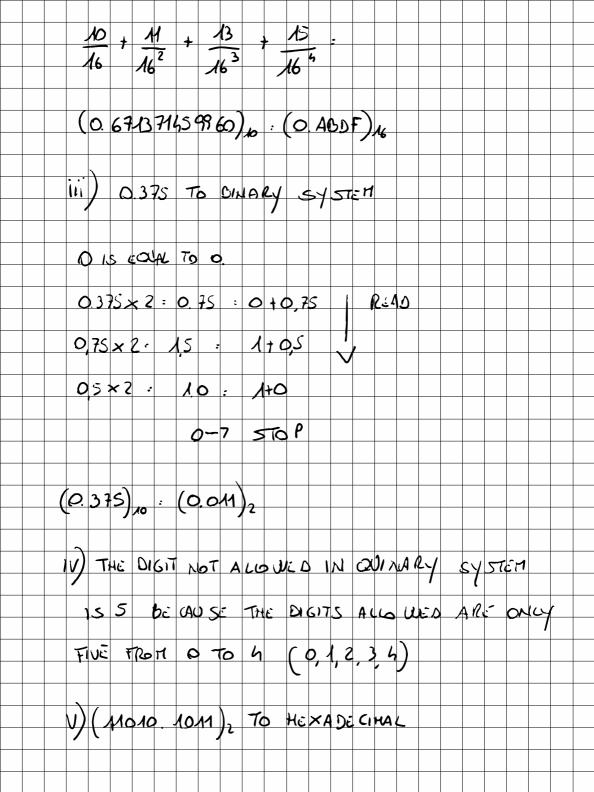
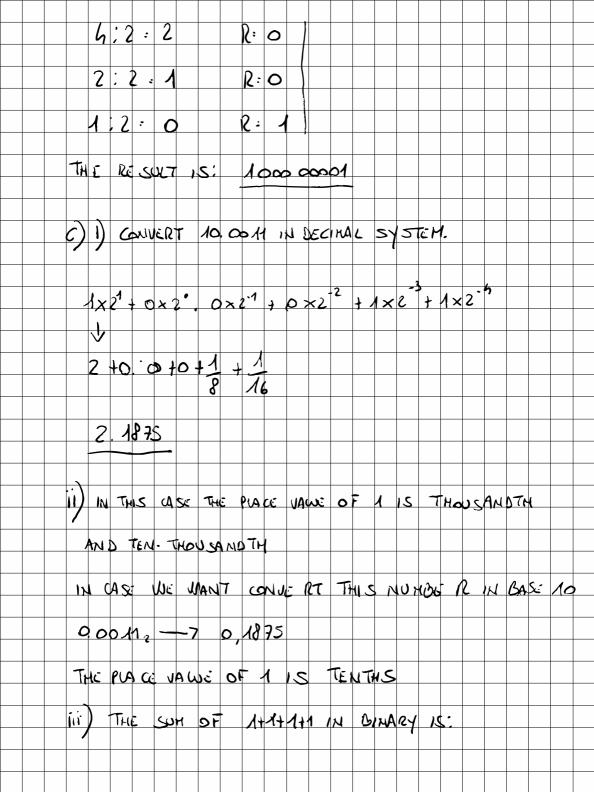
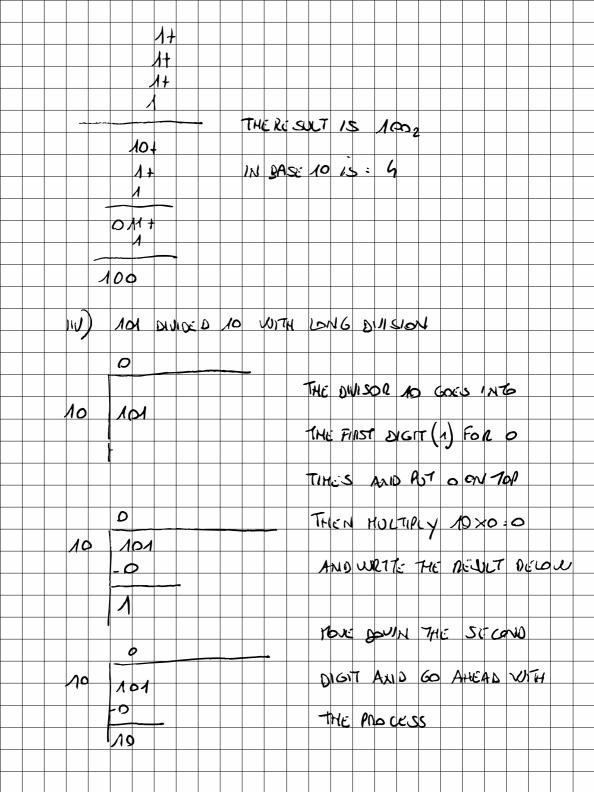
MID TERM COURSE WORK CHO15 2020 - 2021 QUE STIDIN 1 a) (abc. de) x = (ax2+bx+c+dx-1+ex2)10 IN ORDER TO USE THE EXPANSION METHOD WE SHOULD A SUGN POSITION NUMBER TO EACH DIGIT OF THE CIUN NUMBER, IN ADOITION DIGITS TO THE LEFT OF DECINAL ARE NUMBERED STARTING FROM O AND DIGITS TO THE RIGHT ARE NUMBERED STARTING FROM -1 IN ORDER TO HAVE THE DECITAL DIGIT WE LERFORM THE ADDITION OF ALL TERMS THIS METHOD IS VALUE FOR MAY NUMBER OF DIGITS D) i) (723) & TO NEXA DECIMAL CYSTEM IN DENER TO CONVERT THIS OCTAC IN HEXADECINAL, FIRSTLY

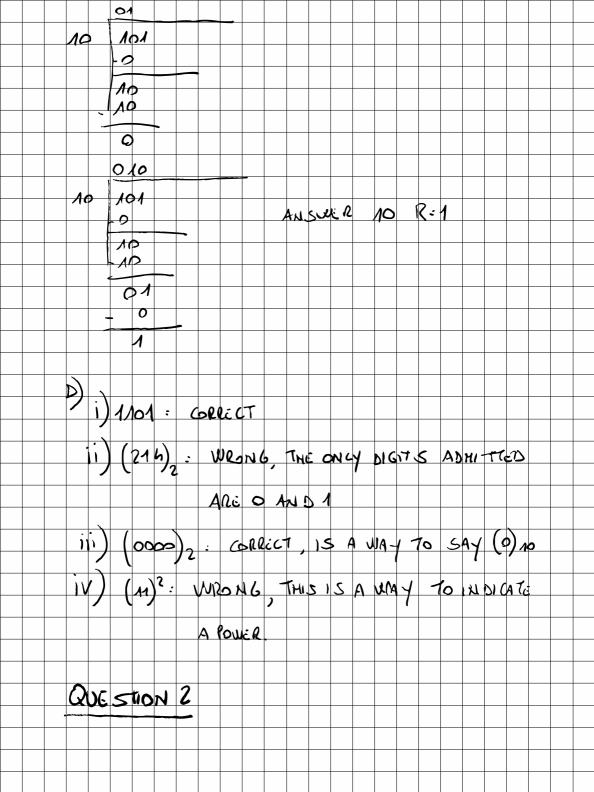
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ii)	(0.	A	201	F),	16	70	)	يح	Cin	AL	3	>7	ડા	EΠ							
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0 13	5 6	(a)	AC	70	•	>														+	+
A = 1	10			B=	11				Dء	1	3			F	. ء	15					_
	(11) NOW Ex 14	(723) 8  (723) 8  (141) (0  MOW W  TACCIA  (110)  NOW TO	(723) 8  (141) (010)  NOW WE N  TACCLATE  (110) (0. A)  NOW TO ( EX 1A N SIO  O IS E OU	AND THEN I  (723)3  (A11) (O10)(O)  NOW WE NEED  ALCHATE THE IIII  (110)(OM)  NOW TO GAL  EX 19 ALSON  O IS EQUAL	AND THEN IN  (723)8 7  2  3  (411) (010)(011)  NOW WE NEED THE  (110)(0011)  (10) (0011)  NOW TO GAMES  EX PANSION H  O IS E WAL TO	(723) 8 7 15  (723) 8 7 15  (111) (010) (011) =  NOW WE NEED TO  TACCUATE THE WA  (110) (00M) · 1  II) (0. ABDF) 6  NOW TO CAWERT  EX PANSION HET	(723)3 7 15  (723)3 7 15  (111) (010)(011) = 1  NOW WE NEED TO 61  TACCUATE THE WALL  (110)(0011) · 1 (D)  (11) (0. ADDF) 16  EX PANSION HE THO  O IS EQUAL TO 0	AND THEN IN THEXA  (723)3 7 1.5 (A  2 (O  3 (OA  (111) (O10)(O11) = M10  NOW WE NEED TO GROW  THOUGHTE THE VALUE  (110)(OAD) . 1 (D) (.  II) (O. ADDF), TO  NOW TO CHWERT THIS  EX PANSION HETHOD  O IS E WAL TO O	AND THEN IN THEXADE  (723) 3 7 IS (M)  2 (06)  3 (011)  (111) (010)(011) = M1010  MOW WE NEED TO GROUP B  TACCHATE THE WALLE, T  (110)(00M) · 1 (D) (3)  II) (0. ABDF), TO DE  NOW TO GAWERT THIS A  EX PANSION HE THOD  O IS EQUAL TO O	AND THEN IN HEXADECT  (723)8 7 15 (MM)2  2 (06)2  3 (0M)2  (M1) (010)(011) : M10100M  NOW WE NEED TO GROUP EVE  TACQUATE THE WALLE, FROM  (110)(00M) · 1 (D) (3) =  (110)(00M) · 1 (D) (3) =	AND THEN IN HEXA DECIMAN  (723)8 7 IS (M)2  2 (Ob)2  3 (OM)2  (M) (OD)(OM) = MICHANIZ  NOW WE NEED TO GROUP EVERY  TACHATE THE WAYE, FROTE I  (10) (O. ADDF) 16 TO DECIMAL  NOW TO CONWERT THIS NUMBER  EX IAM SION HE THOD  O IS EQUAL TO O	AND THEN IN THEXA DECIMAL.  (723)8 7 IS (M)2  2 (06)2  3 (0M)2  (M) (010)(011) = M10100112  NOW WE NEED TO GROUP EVERY H  TACCHATE THE WALLE FROM LEFT  (110)(00M) · 1 (D) (3) = 1D  II) (0. ADDF) 16 TO DECIMAL S  NOW TO CANCET THIS MUTICER  EX PANSION HETHOD  O IS EQUAL TO D	AND THEN IN HEXADECINAL.  (723)8 7 IS (AM)2  2 (OD)2  3 (OM)2  (M1) (OD)(OM) = MIOTOM12  NOW WE NEED TO GROUP EVERY 4 DI  TACCHATE THE WALLE, FROM LEFT -  (MO)(OM) · 1 (D) (3) = 1D3,  II) (O. ABDF) 16 TO DECIMAL ST  NOW TO CONMERT THIS MUTCHER WE  EX PANSION HETHOD  O IS EQUAL TO O	AND THEN IN HEXADECINAL.  (723)8 7 IS (M)2  2 (06)2  3 (01)2  (111) (010)(011) = M10100112  NOW WE NEED TO GROUP EVERY 4 DINAM THEMATE THE WALE, FROM WEFT TO  (110)(00M) · 1 (D) (3) = 1D3 16 =  (11) (0. ABDE) 16 TO DECIMAL SY ST  NOW TO CONWERT THIS NUMBER WE EXTANSION HETHOD  O IS EQUAL TO D	AND THEN IN HEXADECINAL.  (723)3 7 IS (M)2  2 (06)2  3 (011)2  (411) (010)(011) = M10100112  NOW WE NEED TO GROUP EVERY 4 DINARY  TACCULATE THE VALUE, FROM CEFT TO BE  (110)(00M) · 1 (D) (3) = 1D3 16 = 7  II) (0. ABDF) 16 TO DECIMAL ST STEET  NOW TO CONWERT THIS MUTICER WE CAN  EX 1AN SION HETHOD  O IS EQUAL TO D  O IS EQUAL TO D	AND THEN IN THEXA DECIMAL.  (723)8 7 IS (AM)2  2 (Ob)2  3 (OM)2  (M1) (OD)(OM) : MIOTOMI2  NOW WE NEED TO GROUP EVERY 4 DINNEY BY  TACCHATE THE VALUE, FROM CEFT TO RIGHT  (110)(OM) · 1 (D) (3) = 1D3 16 = 725  II) (O. ABDF) 6 TO DECIMAL SY STEM  NOW TO CONVERT THIS NUMBER WE CAN CEXTAN SION HETHOD	AND THEN IN THEXA DECIMAL.  (723)8 7 IS (M)2  2 (06)2  3 (011)2  (111) (010)(011) : MIOTONI2  NOW WE NEED TO GROUP EVERY 4 DINNEY BITS  TACCHATIC THE VALUE, FROM WEFT TO RIGHT  (110)(001) · 1 (D) (3) = 1D3 16 = 7238  II) (0. ADDF) 16 TO DECIMAL ST STEM  NOW TO CONWERT THIS NUMBER WE CAN USE  EX PANSION HETHOD  O IS EQUAL TO D	AND THEN IN HEXADECINAL.  (723)8 7 IS (M)2  2 (06)2  3 (0M)2  (M1) (010)(0M) = M10100M2  NOW WE NEED TO GROUPEUCRY 4 DINNEY BITS AN  TACCHATE THE VALUE, FROM CEFT TO RIGHT  (110)(00M) · 1 (D) (3) = 1D3 16 = 7238  II) (0. ABDF) 6 TO DECIMAL SY STEM  NOW TO CONMERT THIS MUMBER WE CAN USE THE STEMP OF THE STEPP OF THE	(723)3 7 15 (M)2  2 (06)2  3 (0M)2  (M1) (010)(0M) = M10100M2  NOW WE NEED TO GROWP EVERY 4 DINNEY BITS AND  TAKKNATE THE WAWE, FROM CEFT TO RIGHT  (110)(00M) · 1 (D) (3) = 1D3 16 = 7258  II) (0. ABDF) 16 TO DECIMAL SY STEM  NOW TO CONWERT THIS MUTICER WE CAN USE THE  EX PANSION HE THOD  O IS EQUAL TO 0	AND THEN IN HEXADECIPAL.  (723)8 7 15 (M)2  2 (Ob)2  3 (OM)2  (M1) (OD)(O11) = M10100112  NOW WE NEED TO GROUP EVERY 4 DINNEY BITS AND TAKULATE THE VALUE, FROM (EFT TO RIGHT  (110)(OM) · 1 (D) (3) = 1D3,6 = 7238  II) (O ADDF),6 TO DECIMAL ST STEM  NOW TO CANKET THIS NUMBER WE CAN USE THE  EX 1AN SION HETHOD  O IS EQUAL TO D	AND THEN IN THEXA DECIMAL.  (723)8 7 IS (AM)2  2 (Ob)2  3 (OM)2  (A11) (O10)(O11) = A110100112  NOW UX NEED TO GROUP EVERY 4 DINNEY DITS AND  TAKKMATE THE VALUE, FROM CEFT TO RIGHT  (110)(OM) · 1 (D) (3) = 1D3 16 = 7228  II) (O. ABDF)16 TO DECIMAL SY STEM  NOW TO CONVERT THIS MUMBER WE CAN USE THE  EX PANSION HETHOD  O IS EQUAL TO D

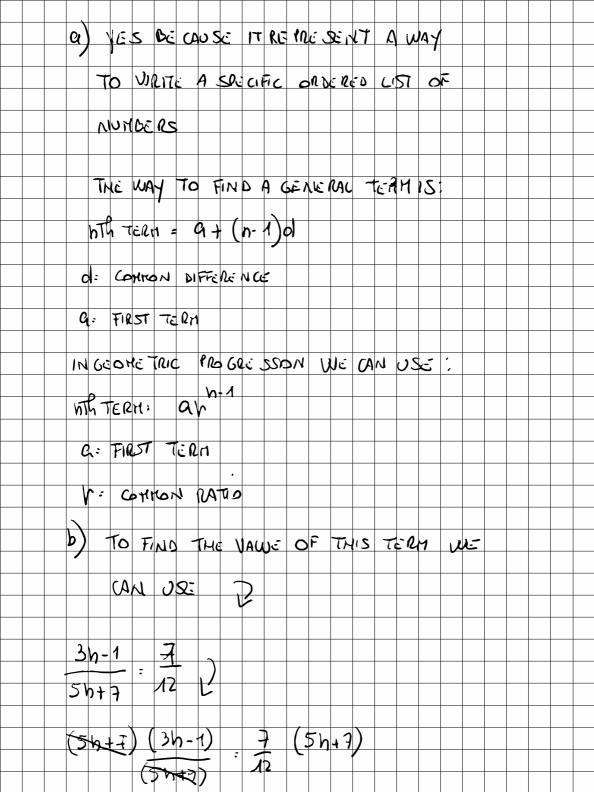


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$$(3h-1) \cdot \frac{7}{12} (5h+7)$$

$$(3h-1) \cdot \frac{35}{12} h + \frac{69}{12}$$

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$$12 (3h-1) \cdot \frac{35}{12} h + \frac{69}{12}$$

$$12 (3h-1) \cdot \frac{35}{12} h + \frac{69}{12}$$

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$$36h-12 \cdot \frac{35}{12} h + \frac{69}{12}$$

$$96 \cdot \frac{35}{12} h + \frac{69}{12}$$

$$182 \cdot \frac{7}{12}$$

$$5(61) + \frac{182}{312} \cdot \frac{7}{12}$$

$$7he = \frac{182}{12} \cdot \frac{7}{12}$$

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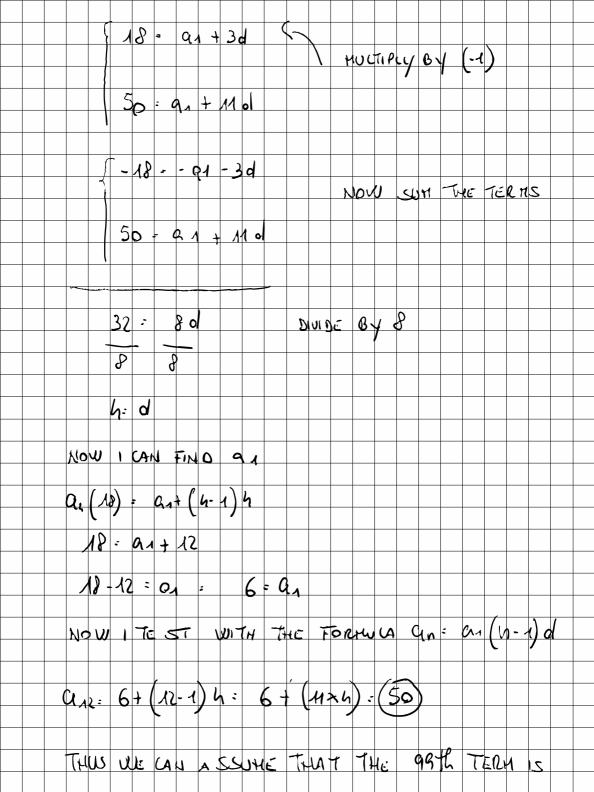
$$7he = \frac{182}{12} \cdot \frac{7}{12}$$

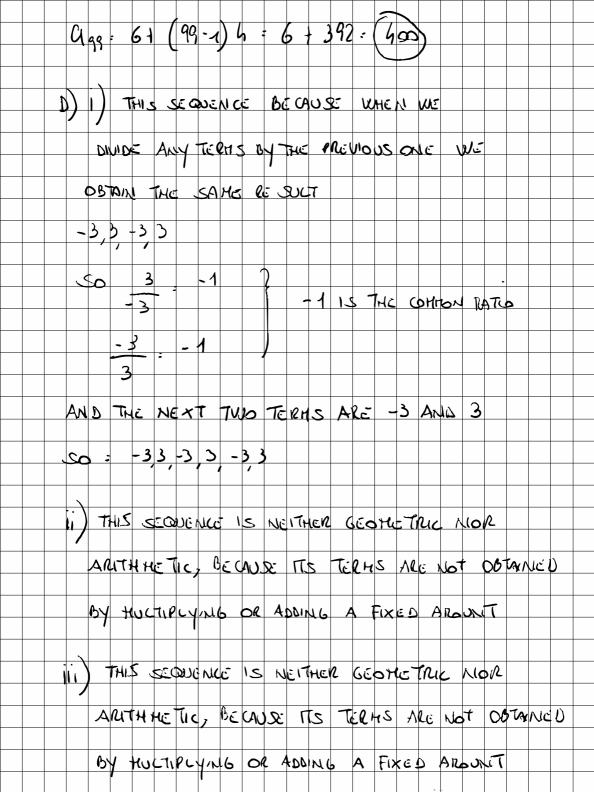
$$5(61) + \frac{1}{3} \cdot \frac{312}{12} \cdot \frac{7}{12}$$

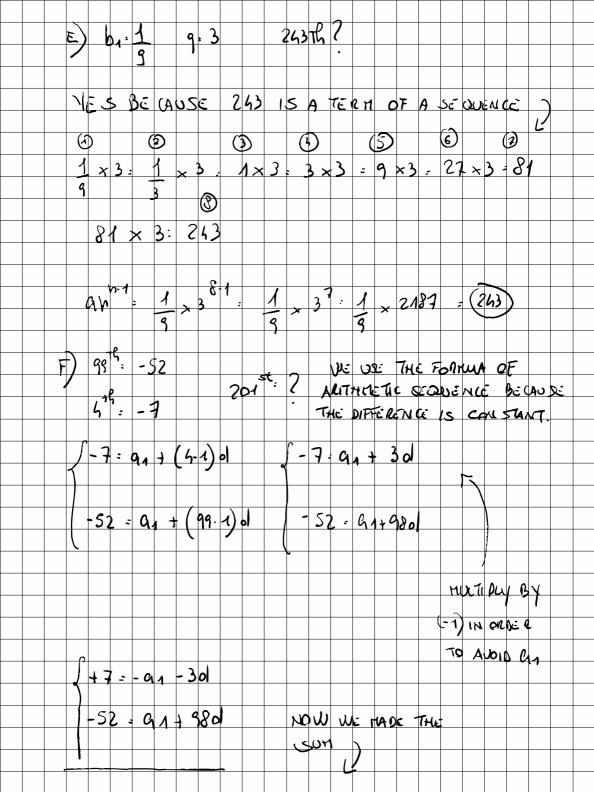
$$5(61) + \frac{1}{3} \cdot \frac{312}{12} \cdot \frac{7}{12}$$

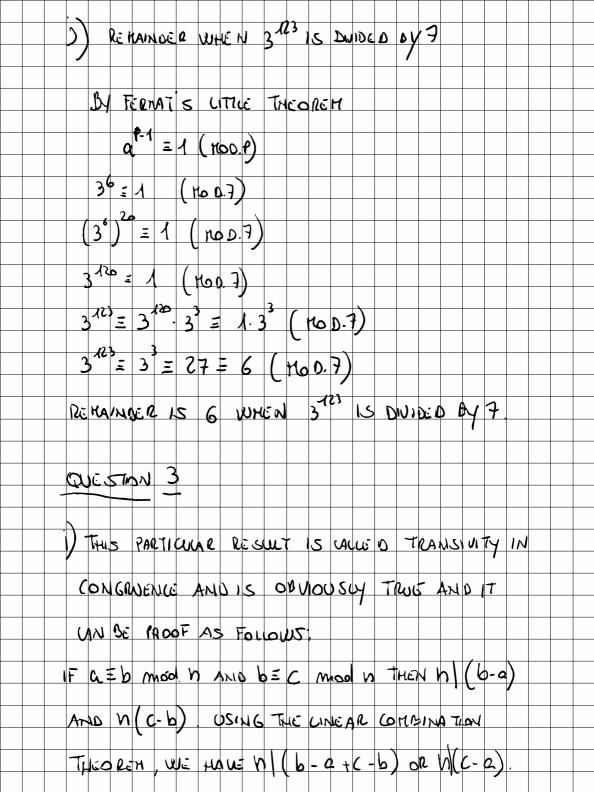
$$5(61) + \frac{1}{3} \cdot \frac{312}{12} \cdot \frac{7}{12}$$

$$5(61) + \frac{1}{3} \cdot \frac{3}{12} \cdot \frac{7}{12}$$









THUS Q = C mad. h 1) at b = C + d (ros h) WRITE a: Kn+b AND C= In+d FOR SOME K, I E 2 THEN atc = (K+1)n+b+d So, a+c = b+d+tn, t: UII EZ atc = b+ of (nos. n) iii) 7x = 12 (rob.7) THERE IS NO SOUTH IN BELLINE (7,7) = 7 IS NOT A DIVI SO R OF 12 B) FIND THE LEAST POSITIVE YOME OF X SUCH THAT: 71 = x (100.8). 71-x 15 own since ay 8 WHEN X: 1, 71-X - 70 WHICH IS NOT DIVISIBLE BY & WHEN X: 2, 71-X: 69 WHICH X = 3,71 -x = 68 "

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