Asn 6
3.5
5/2.2.2.2.2.2.3.3.3.5.5.7
28·34·5 ² ·7
- 1 (-) 1 1 1 1 1 1 1 1 1 1
8) (n+1/! +2, (n+1/!+3,, (n+1)!+n, (n+1)!+n+1 divisible by 2 divisible by 3 divisible by 1 divisible by
AIVISIBLE BY C aivisible by 3 AIVISIBLE DY 11 AIVISIBLE DY
So, there are n consecutive
So, there are n consecutive composite integers
9/2,3,5,7,11,13,17
7 7 26 20
p=3 3,5,7 are consecutive primes p+2=5 that meet the form p+4=7
n+U=7
21/a/35,53 d) 41.43.53
<u>b) 1</u> <u>e) 1</u>
C) 23' + 1111
24) 1000 = 23.53 625 = 54
29/1000 - L·3 6C3 - 3 ·
gcd(1000,625)=5 cm(1000,625)=23.54
gcd(1000,625). 1cm(1000,625)=125.5000
50, gcd(1000,625). 1cm(1000,625) \$\dagger\$ 1000.625
= 34)(2.3.5.7.11.13)+1 = 30,031 = 59.509 (Not
So, PIPZPn+1 is NOT Prime
So, PIPzPn+1 is NOT Prime for every positive integer n

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3.6 6)29+2+25+24+22+1=693 (129+28+27+25+24+23+22+2=958 2"+2"3+2"+2"+2"+2"+2"+2"+2"+2"+2"=31 a) 1000 0000 1110 1011 0011 0101 1010 1010 1011 1010 1010 <u>d) 1101 1110 1111 1010</u> 1100 1110 1101 16) Convert the hexadecimal number to binary by grouping the binary digits into blocks ladding zeros at the start of the leftmost block if necessary hexadecimal then each block represents a single digit. [Hexadecimal to binary: Example number octa Now convert the binary to into. digits blocks birari by grouping of three ladding zeros at start of lettmost block each block translates into it necessary) then digit. a single octa 261 55 = 34. + 21 34= 21.1 + 13 8 divisions, 21=13.1+8 13=8175 8=5.1+3 5-311 +2 3=21 +1

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32/ a) 01 0110	6) 01 1111	4 11 1000	d/10/1100
36) simply complement subtraction, there is, 1-(-1) So, you are of the number that you a	·	•	
38/ a) 01 0110			
		4	

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