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P 1.7 9(110010)2 32168421 32+16+2= 1501 6) (1106100)2 6432168421 64+32+4=100 (1/100 1 0 00) 2 128634 18 4 21 - 128 +264+8 = 200 (1110010000)2 250+128++16=1400 28 2 210 229-1 1.8. (270)in 256 < 270 512 2 4 520 4 2 10-1 a (180), 2° 2 7806260-1 10 bits 2 < 102962 -1 (1029)10 11 6.75

2.1 prove: 2+42= (n+4) . (n+2) Prone US = RHS Ourrem for multiplying out & Factoring i dempotant lows to simplify non x + 21.5 + 4x + 4.5 simple of cuton them (2+ xy) = The simple fiction thousen :, n+42 = 2+42 LHS = RHS L 2.2. using the own for multiplying out using idempotent lows laws of complementant +24+42+0=2

> using simplification theorem (n+xY= x) twice get rid of ny & yzi :. 14 + 0 = K (n+0=2 using identity laws :. n = n V LHS = RHSV using annulwent laws (X+1=1 LHS = RHS