Tell Tikiwala COSC 2406 law 1 - Hath, Part 1, Student id : 239659420 @ 125 Primal to Birary Recimal Quotiera (62 × 0) + (05 × 31) + (05 × 0) 10 (05 × 0) 31×1) + (° C x 15) + (° C x 8) + (° + x 1) 7 () 1 (1 × 3) + (1 × 6) + (1 × down to up 0 + 0 + 0 + 0 + 0 + 0 + 0 + Binary no is : 1111101 (42 Quotiera Reminder. pecimal (42 x1) + (21) + (20) + (21) 210(x0) + ("5x10) + ("5x0) + ("5x1) - ("sxo) + ("sxo) + ("sxo) + ("sxo) (°CXI) + ('CXI) + (CXI) + (°CXI = 32368 + 0 + 8192 + 4096 + 2048 + 0 + 512 0 + 128 + 0 + 32 + 0 + 8 + 4 + 2 + 1 Binary no is : 101010 F 47 + 12 +

(a) 125

@ 1001 0010 1101 1000

$$+ (1 \times 2^{16}) + (0 \times 2^{14}) + (0 \times 2^{13}) + (1 \times 2^{12}) + (0 \times 2^{11}) + (0 \times 2^{10}) + (1 \times 2^{0}) + (0 \times 2^{0}) + (0 \times 2^{0}) + (1 \times$$

= 32768 + 0 + 0 + 4096 + 0 + 0 + 512 + 0 + 128 + 64 + 0 + 16 + 8 + 0 + 0 + 0

(b) 1011 1010 1010 1111

$$= (1 \times 2^{16}) + (0 \times 2^{14}) + (1 \times 2^{13}) + (1 \times 2^{12}) + (1 \times 2^{12}) + (1 \times 2^{11}) + (0 \times 2^{10}) + (1 \times 2^{10}) + (0 \times 2^{10}) + (0$$

= 32768 + 0 + 8192 + 4096 + 2048 + 0 + 512 + 0 + 128 + 0 + 32 + 0 + 8 + 4 + 2 + 1

610101 % or on mounty

decimal to hexadecimal.

9 925

divide by

Decimal	() piotient	Reminder () X ()
925	57 (°01 x 01)	13 (D) X EI) +
0557834	4 3 3 9 4 9 6 4 8 9 4 8 9 4	9 + 5292880 E+
3	0	3

hexadeumal no is 390.

(104

heraduinal no 15 68.

@ 0x5F53DA

$$= (6 \times 16^{5}) + (15 \times 16^{4}) + (5 \times 16^{3}) + (3 \times 16^{2}) + (13 \times 16^{1}) + (10 \times 16^{\circ})$$

ternologies is 3900

1 68 de la Communication

(6) 0x 54 ABC2

$$= (5 \times 16^{3}) + (4 \times 16^{4}) + (10 \times 16^{3}) + (11 \times 16^{2})$$

$$+ (12 \times 16^{1}) + (2 \times 16^{0})$$

Rinary to hexadermal (B) (x+4) & n2. 188 4 6000 @ 1011 1000 0001 1011 8 1000 8 00000 0000 8810 1100 1010 0100 0011 A 1010 0100 3 C 0011 1100

A43C

hexadecimal to Benary o

@ 0x5c06

5 C 0 6 0101 1100 1101 0110

© 0x28CD & B C D 0010 1011 1100 1101 or aring is positive.

I wangement of 29 to opet 07

() 5x38 - 0x12 = 0x38 + 0x EE = 0x129

a 1000 0101

2)

8

162)

+2

- 0111 1010 + 1 = 0111 1011 & doing min
- © 1001 1101 0110 0010 +1 = 0110 0011

(a) 1101 1000 + 1000 1100 malorupe lomites

= 11010 0100 P 30x (= 12 p) + x 3 (

decimal equivalent is 92.

(6) 1110 1010 - 0010 0100

1110 1010 + 1101 1100 = 1 1100 01101

M58 is 1

Sign but 4 0.

Perimal equivalent is 58.

MSD W C

Sign digit w 0101 110

ANIWE is positive.

decimal equivalent is 8

© $0 \times 38 - 0 \times 12 = 0 \times 38 + 0 \times EE = 0 \times 129$ H50 is 1 2^{5} comprement of 29 to get 07 answer is negative. definal equivalent is -41.

(a) & x + (y & ~z) xor y 001001011.

Table:

Rivary to heradicinal (x+4) & ~ 2 xor y (x+y) 2 vz (x+y) 2 vzxory x y ~Z x+y 8 01101 0 0 0 1 0 0 0 0 0001 0 000 1 0 0 9000 1 0 0180 0 0 1 0 boll 1180 0010 0101 (d) 0 A 0101 0010 11.00 0011 -Z) x wy