8421 6 = 14

Midterm # 6 Scratchwork a.) Convert to + Base 2, 2, and 16 2.875,0 and 0.1796875,6 base 16 Manual Manual X base 16 = 2.E, .875 x16 = 14 0.179687510 × 16 = 2.875 0.875,0×10 F 141(E) base 2 2 0010.1110, base 2 base d = 0.001011102 = 0.1398 base 8 2 / 2.78 0.101110 x 2 0.1011100 0 0 0 0 0 0 0 0 0 0 6) Convert to Base > 2,8, and 16 5000002 -2.875 -0.1796875 Base 2 2ase 2 1st complement 17 compliment 0.0010.11102 > 1161.00012 0.001011102 > 1.110100012 25 compliment 25 compliment) 115 /118 9.110100012110132+000 1101.00012 12 1101.00102 21.11010010, Base 16 Base 16 = D.216 = 1.D216 Base 8 Base 8 1-2 15.18 = 1,6440, Nasa Porment 7.101,0010 Nasa Parment lell. 11010010 x 2" 1.1010010 x 23 1.111 110100100000 0 00000011 202000003 PE 200003 The property of the

NASA Format - Base 10 (Decimal) = 0.1011 0011 0011 0011 x 21 = 1.011001100110011 x20 = 1.666666 $= 1 \times 16^{\circ} + 6 \times 16^{\circ}$ $= 1 \times 16^{\circ} + 6 \times 16^{\circ} + 6 \times 16^{\circ} + 6 \times 16^{\circ}$ $= 1 + 6/16 + 6/256 + 6/4096 + \cdots$ = 1.3910 ≈ 1.410 (i) 59999902 0.1011001 1001 1001 1001 1001 0000 0010 mantissa 2 0.1011001100110011001 X 2 = 10.1100110011001100 x 2° = 2.CCCCCC16 = $2 \times 16^{\circ} + 12 \times 16^{-1} + 12 \times 16^{-2} + 12 \times 16^{-3} + \cdots$ = 2 + 12 + 12 + 12 4 1096 - 2.790 2 2.810 (iii) A 66667 FE 1.010 0110 0110 0110 0110 0111 11111110 = 0.101100110011 0011 00 11 001 x 2 = 0,001011001100110011001 X 2° = , 20 CCCCu

2 2×16 + 12×16 + 12×16 + 7 ... + 12 × 16 1 1 = 2/10 + 12/256 + 12/4096 + 12/16" 2.-6. 17510 E THESE STATE OF THE STATE OF T