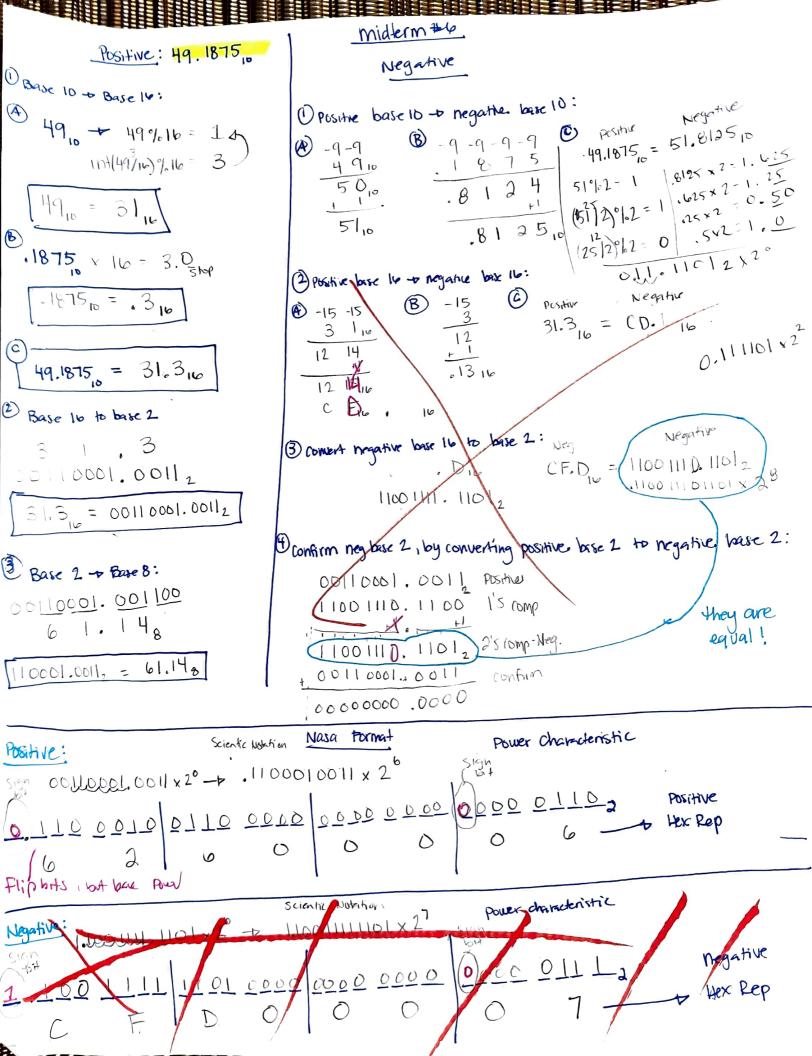
midtern #6 Nasa Format 49.1875,0 = 31.3,6 = 00110001.00112 = 61.148 Positive - Nasa Format 49.1875,0 = 62600006 negative has Format -49.1875,0 positive. 49.1475 0.11000100110 x 26 100111011010 x 26 negative 49.1875,0 1.001 1101 1010 0000 0000 0000 0000 0110 -49.1875,0 = 9DADOOO6



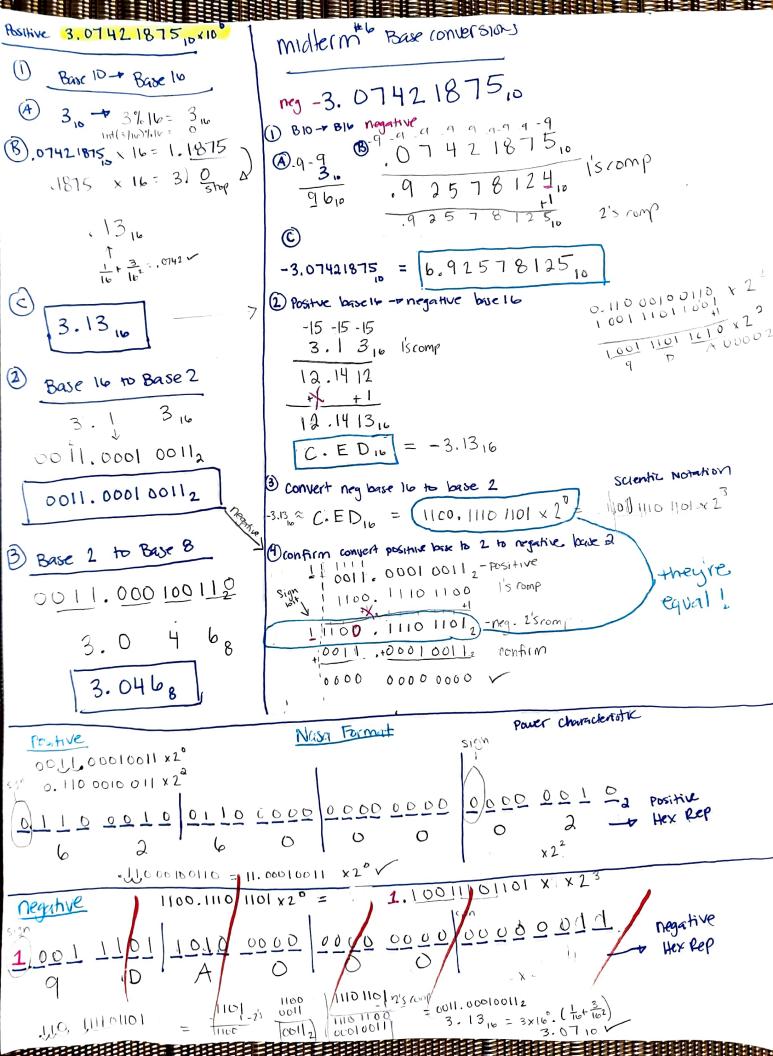
$$7.07421875_{10} = 3.13_{10} = 0011.0001.0001.0011_{2} = 3.0416_{8}$$

$$00.11000010011 \times 2^{2}$$

$$0.1100010011 \times 2^{2}$$

$$-3.07421875_{10} = 9DA00002_{Hxx} = 3.07421875$$

$$-3.07421875_{10} = 9DA00002_{Hxx} = 3.07421875$$



midtern #6 nasa Format

 $0.20_{10} = 0.3_{16} = .0011_{2} = 0.1463$

0000 00 10 12 1111 1101 1110 - 3

0.110 0000 0000 0000 0000 1111 111 2 2 6 0 0 0 0 0 0 0 0 0 0 F E

0.20 10 = 60000 OFE Hex Rep

 $\frac{-20_{0} \text{ in Hex ReP}}{\times 2^{-2} - 0.20_{10}^{10}} \times 2^{-2} - 0.20_{10}^{10}$ $1.001_{110} \times 2^{-2} - 0.20_{10}^{10}$ $1.010_{2} \times 2^{-2} - 0.20_{10}^{10}$

1.0100000 0000 0000 0000 0000 1111 1110 A O O O O O O O O O O F E

-0.20 10 = A00000FE Hex Rop

midterm #6 Negative Pusi+ive 1) positive base 10 to negative base 10 .20 x 10° D Base 10 - Base 16: . 10 × 16= 3.2 20 x 16= 3.2 2 Positive basello - o neg. base 16 1.2,0 = .3,6 Base 16 to Base 2: .3 10 = .00 11 a 3) convert neg base 16 to neg base 2: Barr 2 to Base 8: = (.1101_a 4) confirm neglouse 2, by converting positive base 2 to neg. loase 2. 001100 1100 11 0011 0011 0011 0011 4 63 8 1 4 63 they one equal! .0011 Postive 1463g .1100 1's comp (110) neg-2'scomp +,0011 Confirm 0000 Positive: .QCII x 2° -> .11x 2-2 Power characteristic Nasa Format 0,0,1100110 = .00110011z = .00112V Power characteristic Scientific Notation .1101 x 2° - + .1101 x 2° 1-1-0-1-1-0-1-1-0-1-1-0-000 0000

Hex 1001 1001 0000 ce le 100/ 100/ Scientic omo rod ×2° dol 1. 0100 1100 1100 1100 1100 1000 $\frac{12}{16^{2}64} \frac{3}{16^{3}} \frac{12}{16^{4}} \frac{12}{16^{5}} \frac{8}{16^{6}}$ J 316. 4 16 3x16. 16 Bio 0.25 + .046875 + .0029 L1 3.299.9997139 3%16-BR. B 10 .2999997139×16=4.80 7 · 80 ×16 = 12.60 B16 · 80 ×16 = 12.8 .8 x 16 = 12.8 8.61 = 01x B. .8x10 = 12.8 B.4 12 12 12 12 12 B.4 C C C C C 16 Blb 0.1101001100110011001100 1100 0000 0010 BQ A

C.1.10. 1001 1001 1001 1001 1000 0011 0110. 1001 1001 1001 1001 1001 x 2° $\frac{6}{16} \cdot \frac{9}{16^{2}} + \frac{9}{16^{3}} + \frac{9}{16^{3}} + \frac{9}{16^{3}} + \frac{9}{16^{5}}$ ·5615 + .035 + .0022 + .000137 + .00000 8583 6.5999994278 Reverse to confirm 6% 16=6,16 .59999 94278×16= 9.599 = 9.6 = 9.6 = 9.6. 6 X 16 Onlie 1001 1001 1001 1001 1001 x 20 0.110 1001 1001 1001 x 2 3 x 2 3 699999

mid term#6 Nasa Formet 1.0010100110011001100111 1.0010110 0110 0110 0110 0110 0:1101001 1001 1001 1001 4111 × .0110 1001 1001 1001 1001 x 2° positive · 6 + 9 + 9 + 9 + 9 + 9 + 9 + 9 165 + 9 165 + 16 Base 10 .412499964210