

NNNNNN

*repeats 10.395 10.395 11.395 11.395 11.395 .395 x 11 x 11 x 11 3.795 7.995

(b)convert to base (3345)6=3x63+3x60 =(785)10 =(785)10 4x61+5x60=648+108+24+5

(3345)6=3xe. 10x62, 10x

.00 10 10 0 2 2 1.9 (a) $\frac{10}{2}$ $\frac{11}{3}$ $\frac{01}{1}$ $\frac{00}{0}$ =(2310.022)4

=(72.4387 10 10)11

9

(c) convert to base $(875)_9 = 8x92 + 7x9110$ = $(716)_{10} + 5x90 = 648 + 63 + 5$

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 $(d)(0.3212)_4 = 3x_{4-1} + 2x_{4-1} + 2x_{4-2} + 1x_{4-3} + 2x_{4-4} + 2x_{$

=72 +7'X

(e) convert to base (87.35)9=8x91+3

-->(x-4)(x-7)=0 x=4 or x=-7 We pick up x=4 since x is positive. 1.10 $(130)_{x} = (28)_{10}$ $1*x^{2} + 3*x + 0*x^{0} = 2*10 + 8*10^{0}$ --> $x^{2} + 3x - 28 = 0$

9 + 1111 101100 + 1011 1.11 (a) 11101

111000 -10101 100011

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