Exercises Rosen p. 269 Integers repres. and Algo

$$(231)_{10}$$

$$= 230 = 118 - 2 + 1$$

$$7 = 2.3 + 1$$

$$= 2.2266 + 0$$

$$381 = 190.2 + 1$$
 $190 = 98.2 + 6$
 $98 = 190.2 + 1$
 $190 = 20.2 + 1$
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$$(10000000)_2$$

$$= 2^9 + 1 = (S13)_{10}$$

$$=2^{8}+2^{6}+2^{4}+2^{2}+1$$

$$(5)(572)_8 = (101111010)_2$$

$$(5)_8 = (101)_2$$

 $(7)_8 = (111)_8$
 $(2)_8 = (010)_2$

$$(1604)_8 = (111000000)_2$$

$$(1)_8 = (001)_2$$

$$(6)_8 = (110)_2$$

$$(0)_{g} = (000) z$$

$$(4)_8 = (100)_2$$

$$(4)_8 = (100)_2$$

 $(2)_8 = (010)_2$
 $(3)_8 = (011)_2$

$$\begin{array}{rcl}
(8)_{16} &= (1000)_{2} \\
(0)_{16} &= (0000)_{2} \\
(E)_{16} &= (1110)_{2}
\end{array}$$

$$(1)_{16} = (0001)_{2}$$

$$(3)_{16} = (0011)_{2}$$

$$(5)_{16} = (0101)_{2}$$

$$(A)_{16} = (1010)_{2}$$

$$(B)_{16} = (1011)_{2}$$

$$(A)_{16} = (1010)_2$$

 $(B)_{16} = (1011)_2$

$$= (B7B)_{16}$$

17 (7345321) e = (111 011 100 101 011 010 001)2 (10 10M 10M)2 $= (1273)_8$ (19) N/A 21 a 100 on 4 4 111 0111 1011 1110