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CPE 185
Homework 9
HOMEWORK 9
1. Record the following as binary floating-point numbers PACKED 32-BIT IEEE
representation:
a. 7.3 40 E9 00 0A
b1/4
BE 80 00 00
c120.3125
C2 F0 A0 00
d. 17/64
3E 88 00 00
2. The following floating-point numbers are given in base 2 scientific notation. First
normalize the numbers and then convert them to packet floating-point representation.
a. 100110.011 x 2
3
44 19 80 00
b. (-)0.001101 x 2
-5
BC 68 00 00
c. (-)110.11 x 2
-16
B8 EC 00 00
d. 0.111001 x 2
8
43 72 00 00

- 3. Each of the following numbers is given in packed floating-point representation. Write out the number as a decimal number.
- a. C1800000 -16
- b. 419E0000

75

c. C0E00000

-7

d. 44640000

56