

## Math 156: Chapter 1 Mixed Practice

Convert the following numbers to the indicated base. Give exact answers unless directed otherwise. Show your work.

1.  $101111_2$  to decimal
2.  $1011.1011_2$  to octal
3. 972 to octal
4. 0.40625 to binary
5.  $B97.E_{16}$  to decimal
6.  $44.E251_{16}$  to octal
7.  $77.613_8$  to hexadecimal
8. 0.6125 to octal
9.  $761.053_8$  to hexadecimal
10. 29.9625 to base 4

Answers:

1. 47
2.  $13.54_8$
3.  $1714_8$
4.  $0.01101_2$
5. 2967.875
6.  $104.704504_8$
7.  $3F.C58_{16}$
8.  $0.47\overline{1463}_8$
9.  $1F1.158_{16}$
10.  $131.33\overline{12}_4$