

Math5900 Homework #4

Answer these questions (use a separate sheet of paper if you need more space). Make sure your work is neatly presented. Show all your work, with thorough explanations.

1. Convert the following numbers to base 10.

(a) 1041_5

(b) 1101101_2

(c) 2012_3

(d) 765_8

2. Convert the following number from base 10 to the indicated base.

(a) 249 to base 2

(b) 453 to base 7

(c) 191 to base 4

(d) 367 to base 6

3. Convert from the given form to the indicated form.

(a) 49% to fraction

(b) 0.875757575... to fraction

(c) $-12.04\overline{32}$ to fraction

(d) $\frac{12}{75}$ to percent

(e) $\frac{34}{7}$ to decimal

(f) 92% to decimal

Also, from the book, do these problems: pg 43 #1, 2,
pg 45 #12
pg 56 #3, 4, 5