

1) 100

- a. radix2 = 1100100
- b. radix3 = 10201
- c. radix4 = 1210
- d. radix5 = 400
- e. radix6 = 244
- f. radix7 = 202
- g. radix8 = 144
- h. radix9 = 111

2) r^k

3) binary32 hex

- a. $9 = 41100000_h$
- b. $5/32 = 3F200000_h$

4) Binary32 hex to decimal

- a. $42E48000_h = 114.25$
- b. $00800000_h = 1.2 * 10^{-38}$

5) Add two binary32 hex numbers

- a. 3F000000

6) 80000005_h