Wednesday, February 18, 2009
11:40 AM

Questions for wednesday test ?

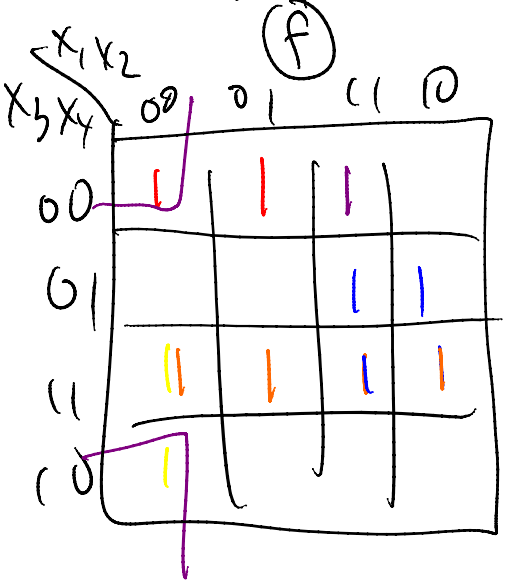
At most 5 variable K-p

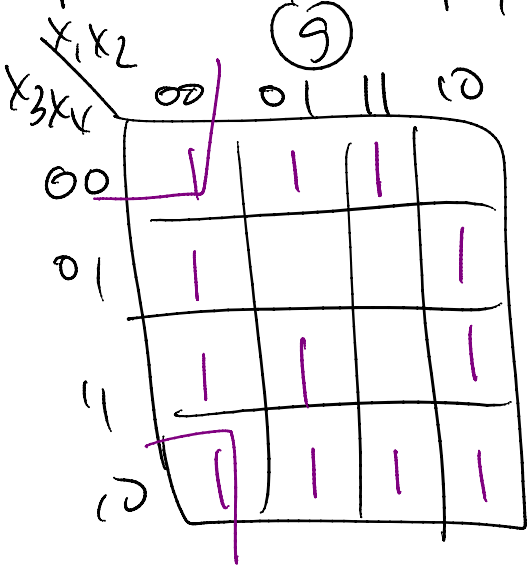
$$f = \overline{(x_1 + x_3 + x_4)} + (x_1 + x_3)x_4 + \bar{x}_1\bar{x}_2x_3 + x_1x_2\bar{x}_3\bar{x}_4$$

$$= \bar{x}_1\bar{x}_3\bar{x}_4 + x_1x_4 + x_3x_4 + \bar{x}_1\bar{x}_2x_3 + x_1x_2\bar{x}_3\bar{x}_4$$

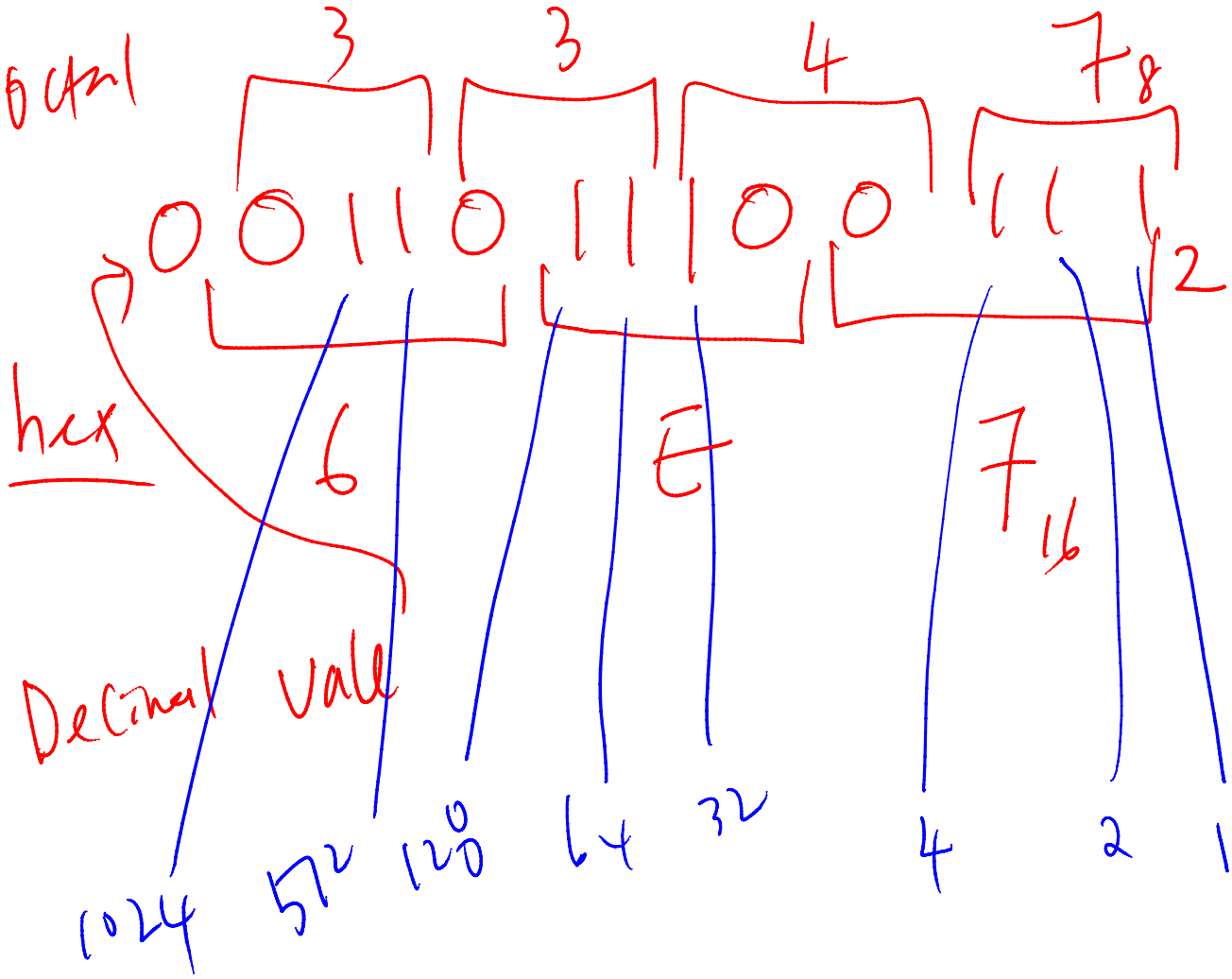
$$g = x_1x_2\bar{x}_3\bar{x}_4 + \bar{x}_2x_4 + x_3(\bar{x}_1 + \bar{x}_4) + \overline{(x_1 + x_4)}$$

$$= x_1x_2\bar{x}_3\bar{x}_4 + \bar{x}_2x_4 + \bar{x}_1x_3 + x_3\bar{x}_4 + \bar{x}_1\bar{x}_4$$



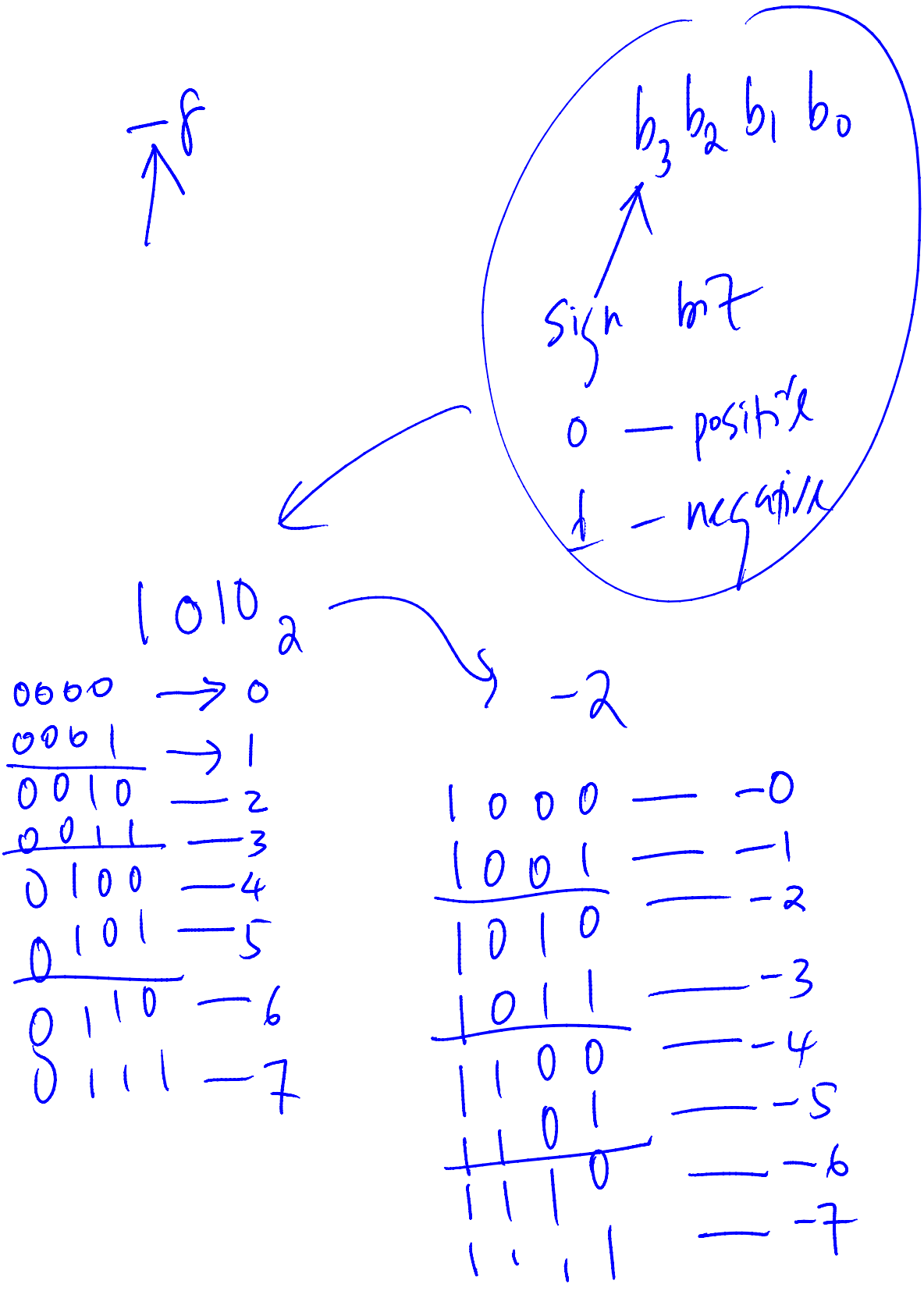


Wednesday, February 18, 2009
11:44 AM



Wednesday, February 18, 2009
11:44 AM

Negative # representation?



Wednesday, February 18, 2009
11:44 AM

1's complement (4-bit)

-2

0010

↓ 1's complement

1101

1111

0000

2's complement

take 1's complement +1

-2

0010

↓ 1's comp

1101

+ 1

1110

0010

↓ 2's comp

1110

Wednesday, February 18, 2009
11:44 AM