

ECE374 Fall2020

Homework3

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Ex1

1) $1^*(01^*01^*)^*$

2) $0^*10^*(10^*10^*)^*$

3) $1^*(01^*01^*)^* + 0^*10^*(10^*10^*)^*$

4) $0(00+11)^*(01+10)((00+11)+(01+10)(00+11)^*(01+10))^* + 1((00+11)+(01+10)(00+11)^*(01+10))^*$

Ex2

5) $((a+b)(a+b)(a+b))^*$

6) $(a+b)^*+(a+c)^*+(b+c)^*$

7) $b^*aa^*bb^*aa^*b(bb^*a^*+aa^*)$