

ECE470 Power Systems I Hints for HW # 7

Selected answers:

1. a) $I_{34} = 323.6 \text{ A}$
 b) 8.74 M\$
 c) 162 MVAR, 12.1 M\$

2. a) $I_{f1} = 3.747 \text{ kA},$ $I_{f4} = 3.102 \text{ kA}$
 b) 1 kA

3. a) $I_{f3} = 746 \text{ A}$ $I_{14}^3 = 170 \text{ A}$
 b) $I_{f3} = 871 \text{ A}$ $I_{14}^3 = 169 \text{ A}$