ENGR 202 Chris Hunt HW3 3.1) Find Zea 12. Zeq = Z.112 = (36)(4-34)
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 34 2,112,412(2-5+52-52) 12(3+5) ZIIIZ = 36 + 12 - 759 L18.4 3.2) At w = 1000 rad/s, Find Zeq 12MF

L. S20 \$10.00

L. WH \$10.00

L. W. L. W. = (10.01(520) = 5200

10.4520 $Z_{eq} = 4 - \frac{10 + \frac{10}{20}}{10 + \frac{10}{20}}$ $L_{eq} = 4 - \frac{10 + \frac{10}{20}}{10 +$ Zeg=4-j83,33+8+j4 2 Zeg=12-j79.33 1

ENGR 202 Chris Hunt HW3 3.3) Find Yea given w= 600 rad/s C;= jwc=-j1666,67 sz C, - IMF 4 & 8 12mH L = 5WL = 57.2 R Z=(- 11666.67)(40+j7.1) Zeq= Z, + Z, 40 - 31659,47 Zeq=40.1 +40.33 + j 6.26 1 = - ;666666.8 - ;412000,024 40-31659.47 Zeg = 80.33 + j 6.26 n 2= 12000.024 - 366666.8 - 67738.2 4-79.8 40-31659.47 1659.952-88.62 Yeg= G+jB Z= 40.81 L 8.82 -0 40.33 + 6.26 s G = 80.33 80.337+6.162 = 124×10-4 B= 6.16 - 9.49 × 10-4 | Yeq = (124-39.49) × 104 1

