The transfer function $V_o/V_{in}$ of a $G_m$-C biquad is given by

$$H(s) = \frac{0.1381931s^2 + 2.721364 \times 10^{15}}{s^2 + 2.320109 \times 10^7 s + 6.595352 \times 10^{15}}$$

Design the filter with 0 dB maximum gain. Both capacitors should be 0.5 pF. Use dynamic range scaling to equalize the output swings of the transconductances. Plot the $G_m$ output voltages before and after scaling in the 1 MHz – 25 MHz region.