Solution

The complex part of the pole is the resonance

The real part of the pole is the bandwidth/2

$$G(s) \approx k \ \frac{s}{(s+1+j5)(s+1-j5)(s+2.25+j19.5)(s+2.25-j19.5)}$$

Match the gain at a point (max gain = 1)

    k = 720 (from Matlab)

$$G(s) \approx \frac{720s}{(s+1+j5)(s+1-j5)(s+2.25+j19.5)(s+2.25-j19.5)}$$

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30