

bodas
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bodas is used to draw bode plot of a system with the following form:

$$G(s) = K \frac{(s + z_1)(s + z_2) \dots (s + z_m)}{(s + p_1)(s + p_2) \dots (s + p_m)}$$

For example, we want draw bode plots the following system:

$$G(s) = -100 \frac{s}{s^2 + 12s^2 + 21s + 10}$$

First, we modify $G(s)$ as follows:

$$G(s) = -100 \frac{(s + 0)}{(s + 1)(s + 1)(s + 10)}$$

Next, we collect z , p , and K , as follows:

```
z = [0];  
p = [1 1 10];  
K = -100;
```

To draw the asymptotic Bode plot, we simply use:

```
bodas(z, p, K);
```

The result is as follows:

