degenerate poles
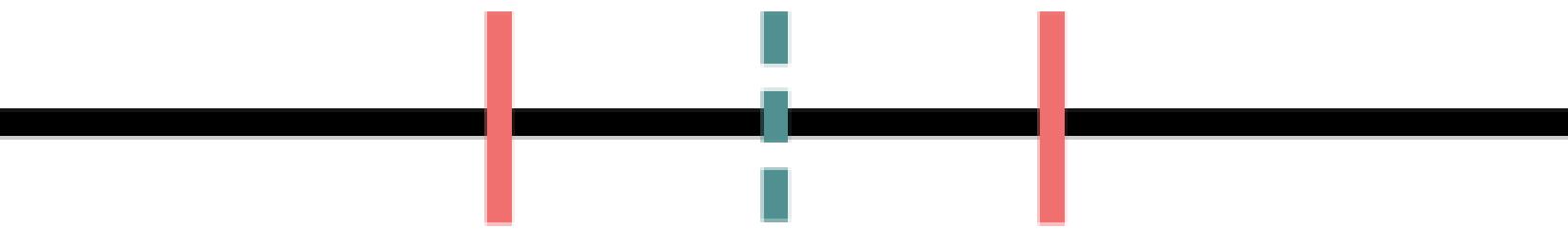
$$G = \frac{1}{\omega}$$

split poles

$$G = \frac{1/2}{\omega - u} + \frac{1/2}{\omega - u}$$