Damping ratio( $\zeta$ )	Undamped natural frequency $(\omega_n)$
Damping ratio basically indicates the amount of damping present in the overall system denoted by zeta, where damping is a counter force. It is a dimensionless measure describing how oscillations in a system decay after a disturbance.	The frequency of oscillation of the system without damping. A system may or may not have an associated natural frequency.
The damping ratio is a system parameter, denoted by $\zeta$ , that can vary from undamped ( $\zeta$ = 0), underdamped ( $\zeta$ <1) through critically damped ( $\zeta$ = 1) to overdamped ( $\zeta$ >1).	Only systems with $\zeta < 1$ have a natural frequency $\omega$ and only in the case that $\zeta = 0$ will the natural frequency $\omega = \omega_n$ , the undamped natural frequency.