

Resonance of a damped oscillator with $\omega_0 = 10 \text{ rad s}^{-1}$

$$\frac{|X|}{X_{\text{st}}} = \frac{1}{\sqrt{(1-r^2)^2 + (2\zeta r)^2}}, \text{ where } r = \omega/\omega_0$$

