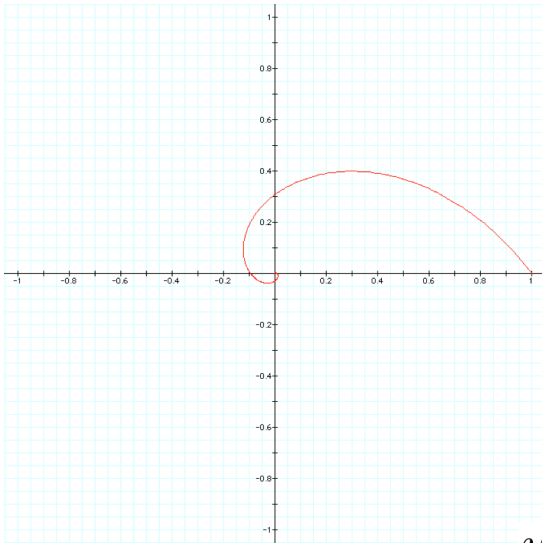


$y \text{ (m)}$

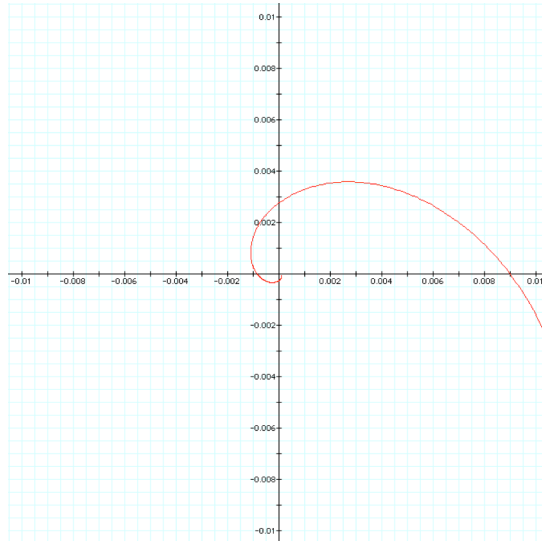


$x \text{ (m)}$

$$x(t) = Re^{-pt} \cos \omega_1 t$$

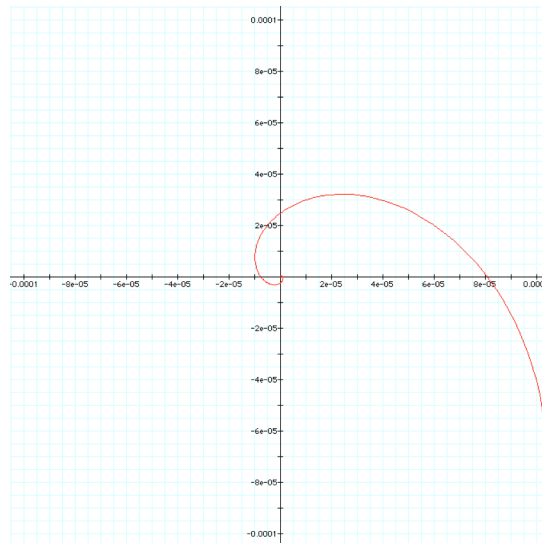
$$y(t) = Re^{-pt} \sin \omega_1 t$$

$y \text{ (m)}$



$x \text{ (m)}$

$y \text{ (m)}$



$x \text{ (m)}$

$$R = 1 \text{ m}$$

$$\omega_1 = 12 \text{ s}^{-1}$$

$$p = \beta/2m = 9 \text{ s}^{-1}$$