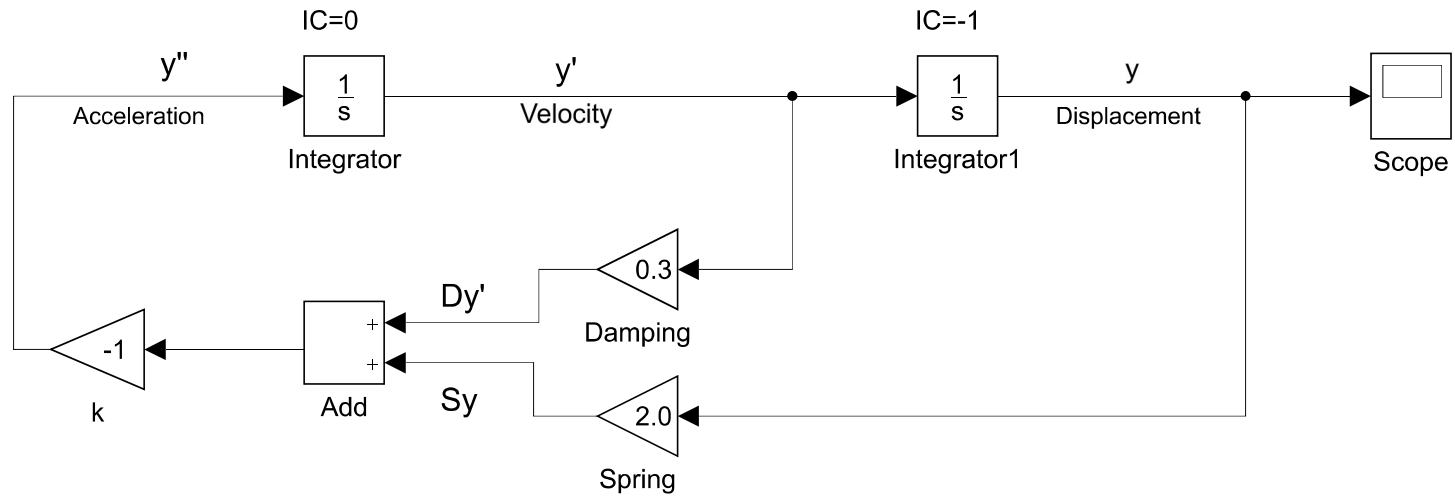


Mass - Spring - Damper



$$my'' + Dy' + Sy = 0$$

$$y'' = (-1/m) (Dy' + Sy)$$

Let $k = -1/m$ (final gain block)

Let $m = 1$

Undamped frequency = $\sqrt{S/m}$