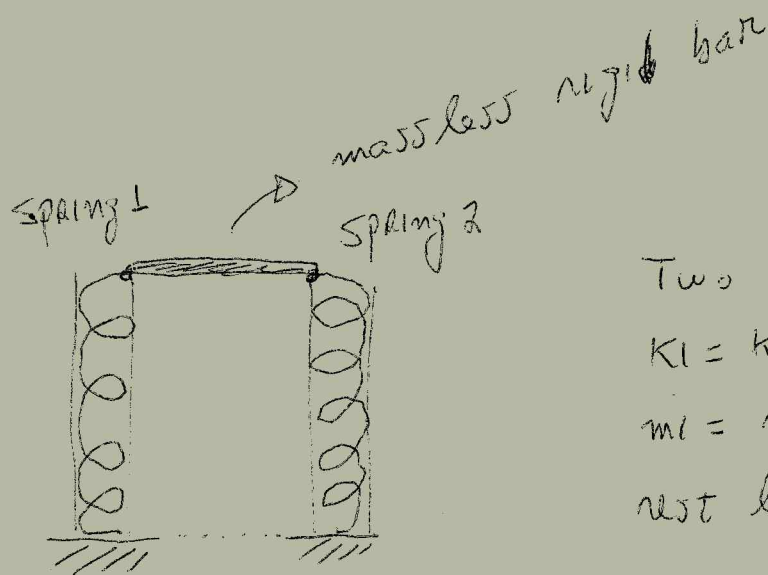
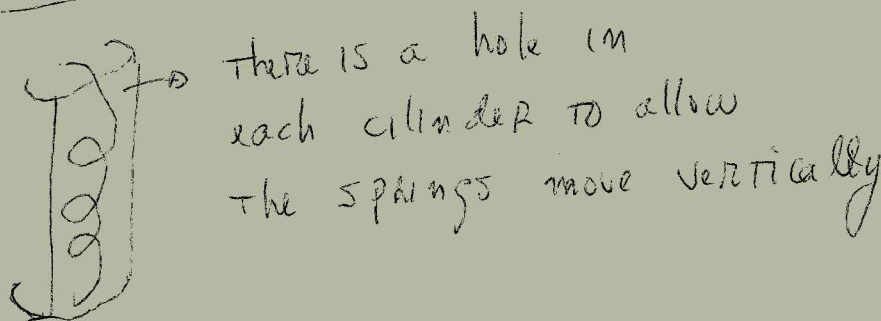


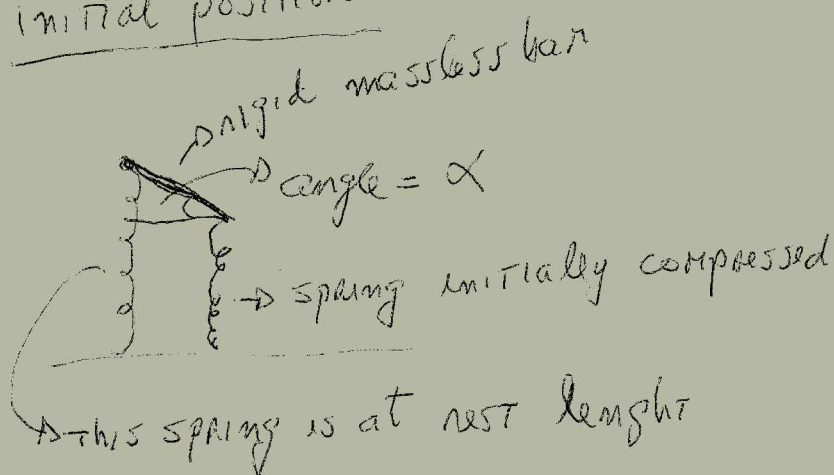


Two equal springs
 $K_1 = K_2$
 $m_1 = m_2$
 rest length = L

The springs move inside vertical cylinders
 without friction



Initial position



what are the
 differential equations
 for $y_1(t)$ and $y_2(t)$

y_1 and y_2 are the vertical
 position of each spring