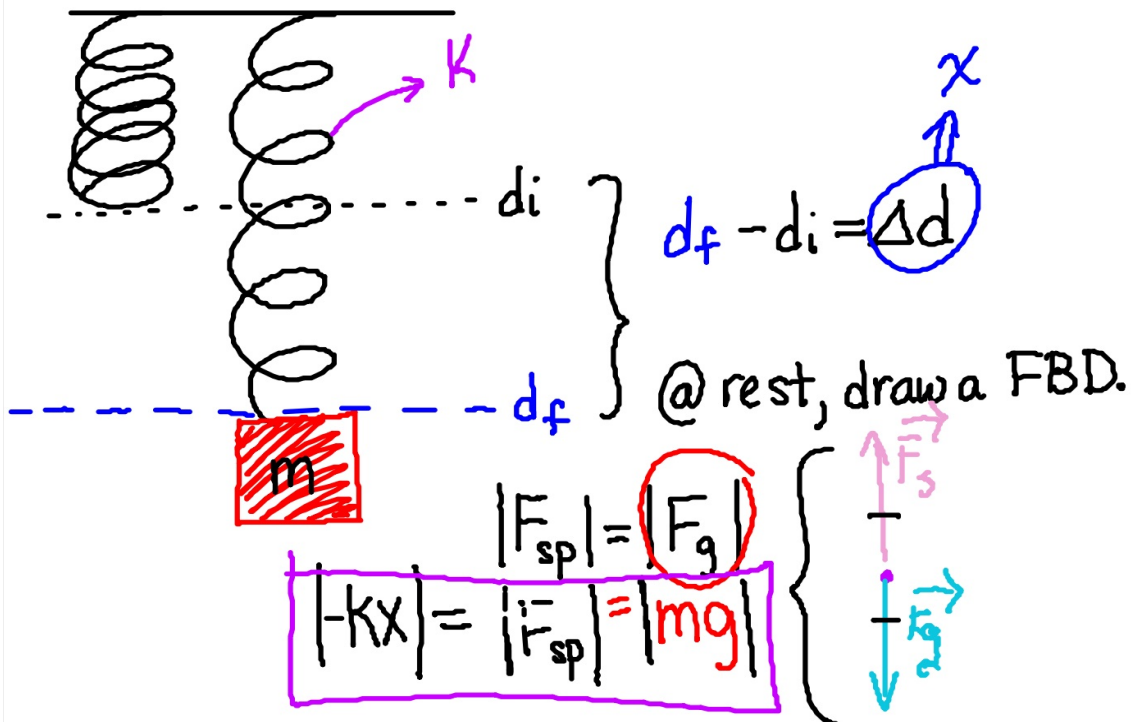


Hooke's Law (Spring Force)

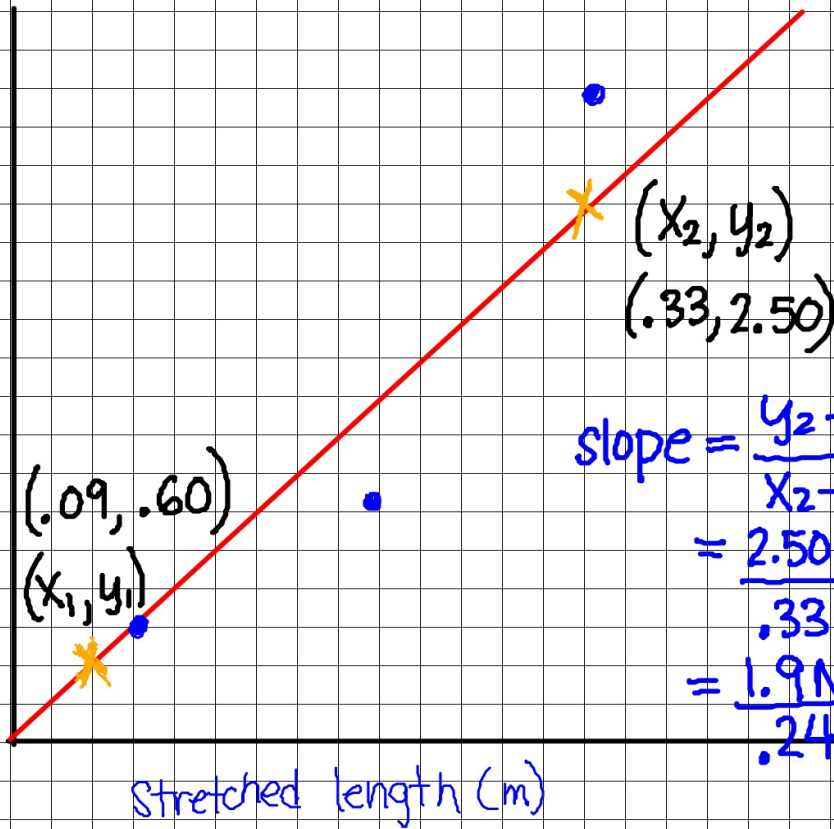
$$F_{sp} = -kx$$

→ displacement
(distance spring is stretched)

↓
spring
constant



Spring Force (N)



$(.09, .60)$

(x_1, y_1)

(x_2, y_2)

$(.33, 2.50)$

$$\begin{aligned} \text{slope} &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{2.50 - .60}{.33 - .09} \frac{\text{N}}{\text{m}} \\ &= \frac{1.9 \text{ N}}{.24} = 7.9 \frac{\text{N}}{\text{m}} \end{aligned}$$