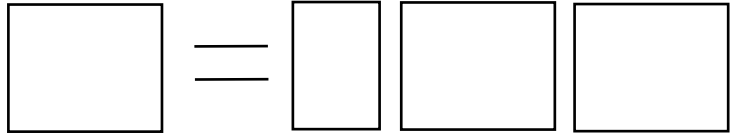


1a.) Fun with letters! Unscramble the letters in this historic anagram to write Hooke's Law in Latin:

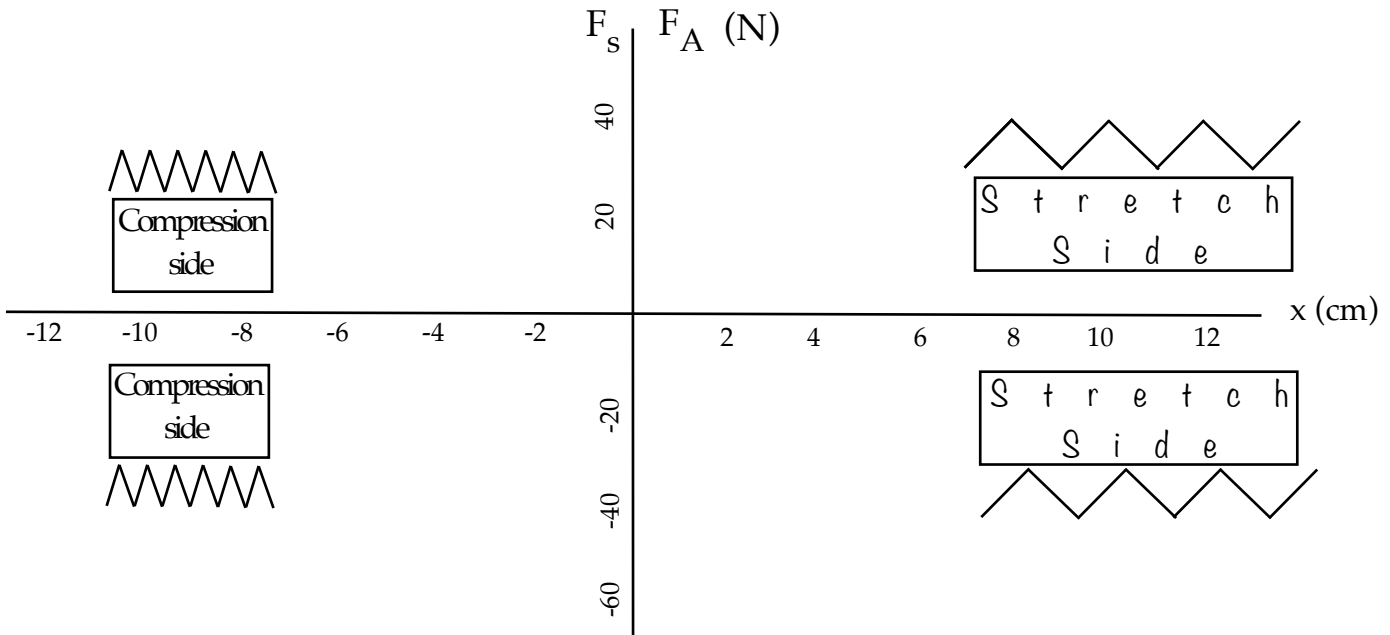
C E I I N O S S S T T U V

1b.) What does that translate to in English?

2.) Write the Hooke's Law equation.
Label all four parts of the equation:



3a.) Plot both quadrants of the spring force (F_s) vs. displacement from equilibrium of a horizontal spring with a k of **600 N/m** and a maximum displacement of **± 10.0 cm**.



3b.) On the same graph above and in a different color, plot the corresponding applied force (F_A) needed to compress or stretch this spring.

4.) Fill in the blanks. Make sure you include the correct units and signs on everything.

F_A	F_s	k	x	Stretched or Compressed?
39 lbs			15 in	
	71 kN	50 MN/cm		
	-4 mN		3.0 mm	