Physics 11

**Section 5.5: Hooke’s Law**

Elastic Force (FE):

Hooke’s Law:

**Example:** A student stretches an elastic cord with a stiffness of 50 N/m by 15 cm. How much force is the student applying?

**Example:** A 65 kg girl sits in a redneck slingshot. The elastic material being used has a spring constant of 31 N/m. If the sling is stretched by 22 m, what is her initial acceleration? How many g’s is that? Will she survive? Did we make any assumptions?