

up to the limit of proportionality

What does 'proportional' mean?

if you double the force, the extension doubles

The graph is a straight line through the origin

$$F = k e$$

Force N ↓
Spring constant N/m
N/cm extension cm

The spring constant is the stiffness of the spring - the greater k is, the harder the spring is to extend.

$$F = k e$$

$$k = F/e$$

Q 6-7 P 38

skip graph
bring to lesson