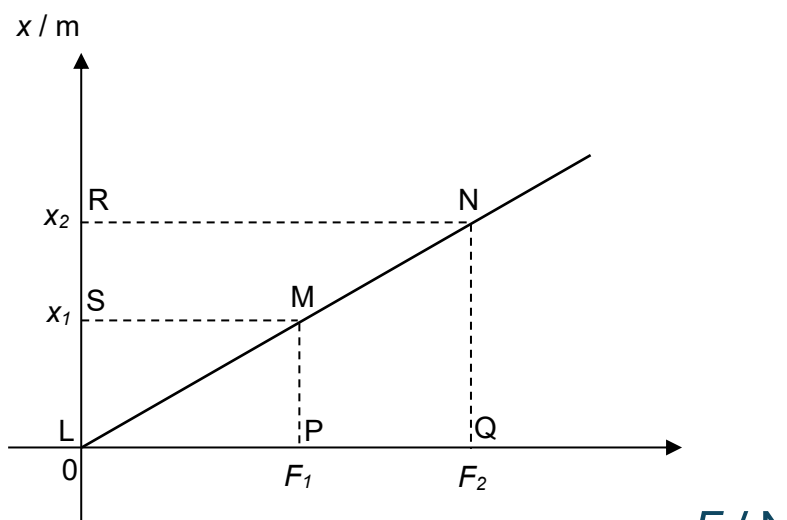


- 8 The variation with force  $F$  of the length  $x$  of a spring is shown below. The tension in the spring is increased from  $F_1$  to  $F_2$ , causing the length to increase from  $x_1$  to  $x_2$ .



The work done in stretching the spring from  $x_1$  to  $x_2$  is given by the area

**A** LMS

**B** MNRS

**C** LMP

**D** MNQP