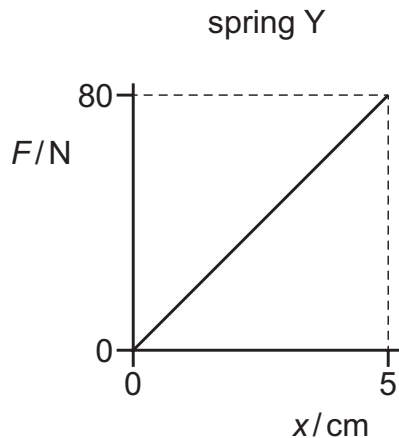
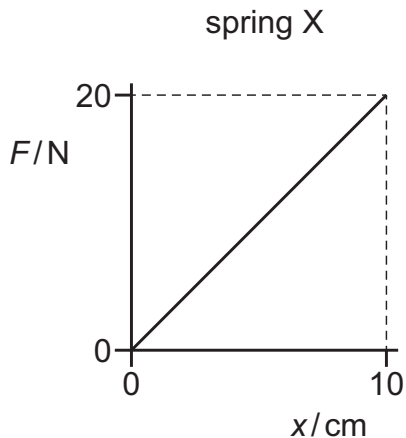


- 22 Two springs X and Y stretch elastically. The graphs show the variation with extension  $x$  of the force  $F$  applied to each spring.



Which statement is correct?

- A When each spring is given the same extension, the energy stored in Y is 4 times the energy stored in X.
- B When each spring is given the same extension, the energy stored in Y is 8 times the energy stored in X.
- C When the same force is applied to each spring, the energy stored in Y is 4 times the energy stored in X.
- D When the same force is applied to each spring, the energy stored in Y is 8 times the energy stored in X.