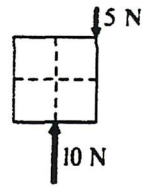
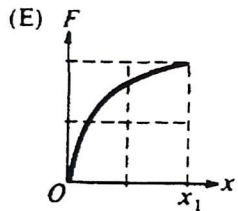
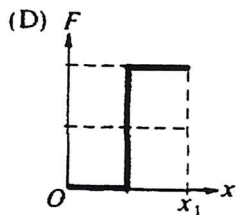
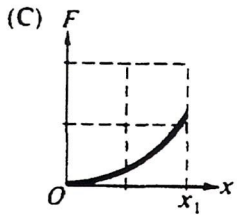
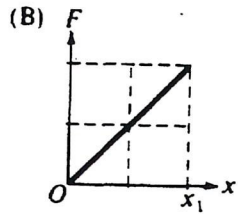
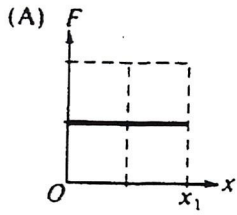


15. The following graphs, all drawn to the same scale, represent the net force  $F$  as a function of displacement  $x$  for an object that moves along a straight line. Which graph represents the force that will cause the greatest change in the kinetic energy of the object from  $x = 0$  to  $x = x_1$ ?



16. A square piece of plywood on a horizontal tabletop is subjected to the two horizontal forces shown above. Where should a third force of magnitude 5 newtons be applied to put the piece of plywood into equilibrium?

