Work by Variable Force

- $W = F_x \Delta x$

  ➤ Work is area under F vs x plot

Force

Work

Distance
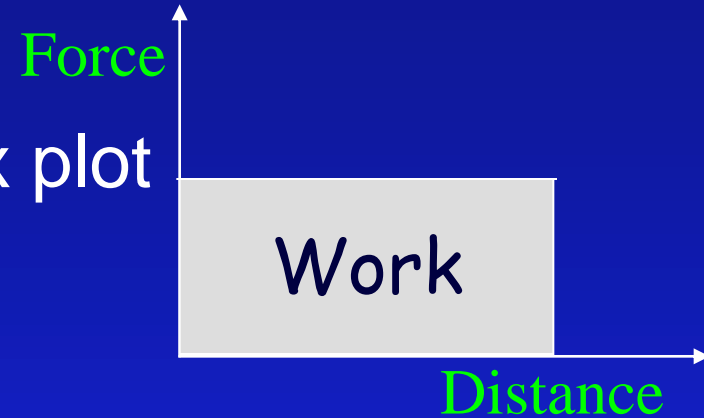
  ➤ Spring $F = k x$

  » Area = $\frac{1}{2} k x^2 = W_{spring}$

Force

F=kx

Work

Distance