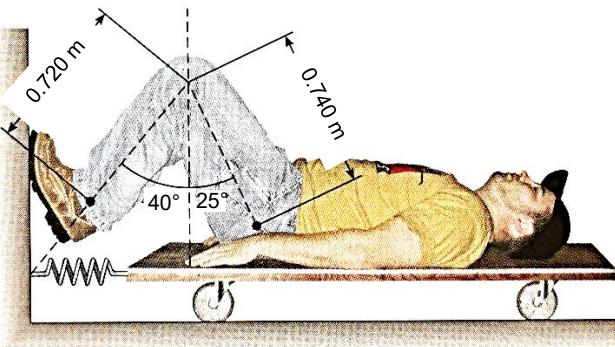


- 12 A spring, originally unstretched, is attached to a cart as shown in the figure below. It has a spring constant of 250 N m^{-1} . A man is lying on the cart with his legs bent. How much work does he need to do to straighten the legs?



A 59 J

B 86 J

C 171 J

D 194 J