Example 1.4

Result

```
(a)Potential energy of the elevator in its Initial Position
  245000.
J
(b) Work Done in Raising the Elevator
  2205000.
J
(c)Potential energy of the elevator in its Highest Position
  2450000.
J
(d) Velocity of the Elevator
  44.27
m/s
(d)Kinetic Energy of the Elevator
  2450000.
(e)Potential energy of compressed spring
  2450000.
J
(f)Total Energy of the System
  2450000.
J
```