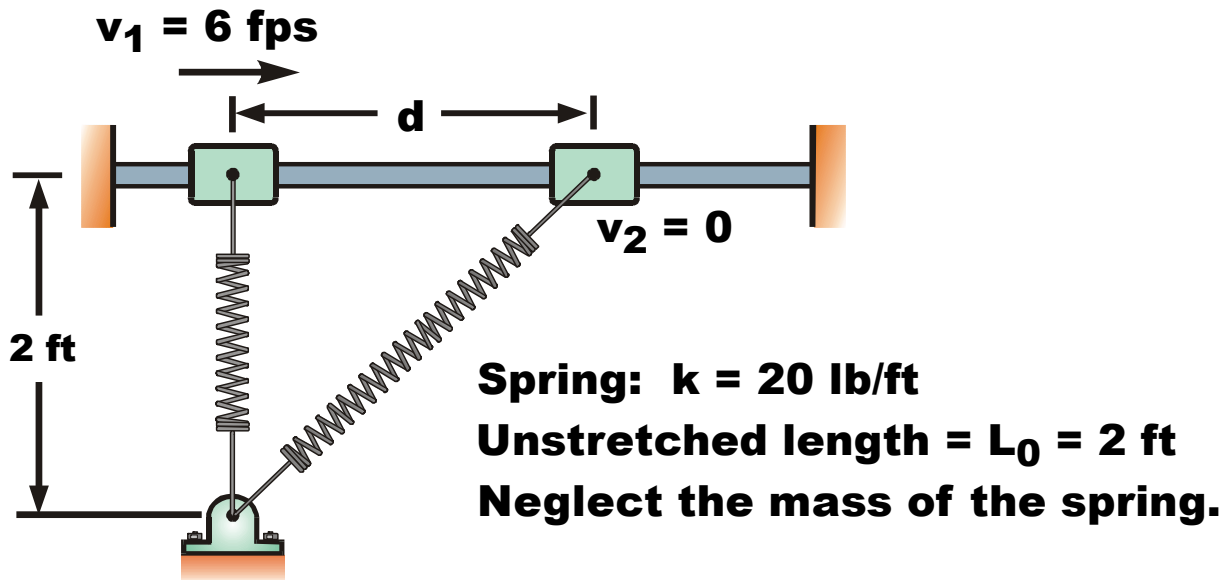


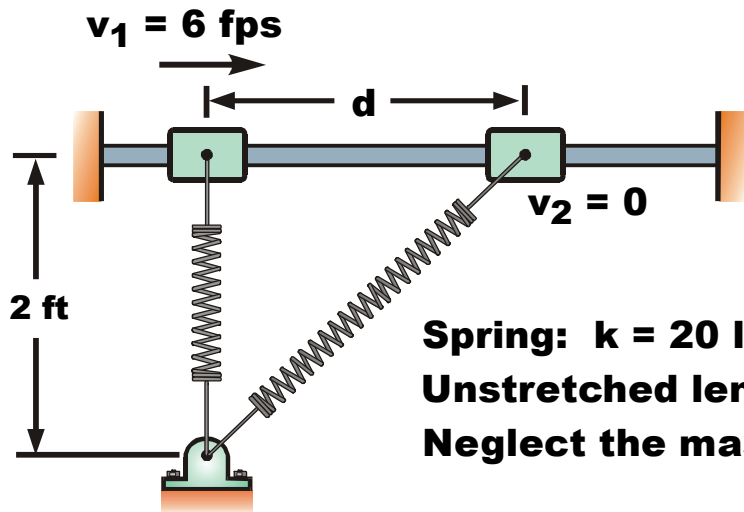
Particle Work Energy: Example Problem 6

An 8.05 lb slider moves at 6 fps to the right on the smooth rod shown below. The spring is originally unstretched. Determine the distance d the slider will move before it comes to a stop. (There's an easy solution and a harder one.)



8.05 lb slider
Smooth rod

Spring: $k = 20$ lb/ft
Unstretched length = $L_0 = 2$ ft
Neglect the mass of the spring.



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