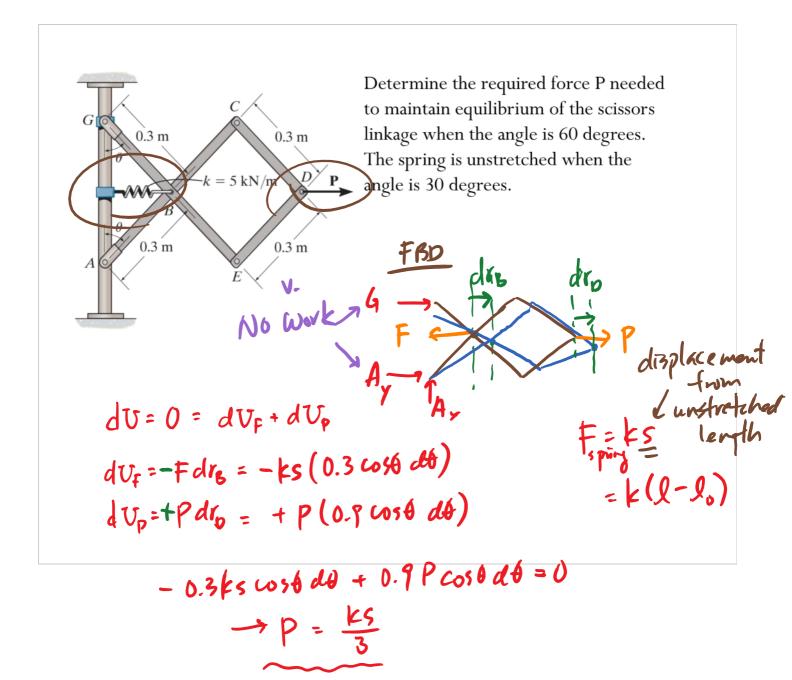
Announcements

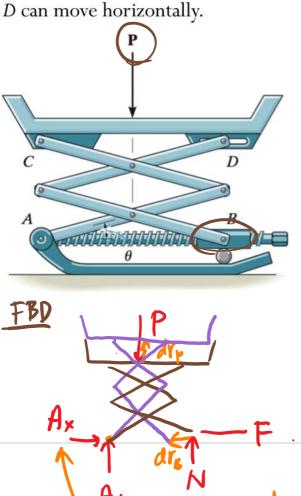
- Last day of class: Monday, Dec. 9
- No discussion sections next week
- Last day of office hours and Piazza help: Wednesday, Dec. 12
- CBTF (last) Quiz 6 starts Thursday, Dec. 1/4 13 (thanks
- ☐ Upcoming deadlines:
- Friday (12/7)
 - Written assignment 9
- Tuesday (12/11)
 - Last PL HW



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The scissors jack supports a load \mathbf{P} . Determine the axial force in the screw necessary for equilibrium when the jack is in the position shown. Each of the four links has a length L and is pin-connected at its center. Points B and D can move horizontally





drs = horizontal

drp = vertical

$$dU - Pdr_p + Fdr_B = -P(2L\cos\theta d\theta) + F(L\sin\theta d\theta) = \delta$$

$$F = \frac{2P\cos\theta}{\sin\theta}$$

The disk has a weight of 10 lb and is subjected to a vertical force P = 8 lb and a couple moment M = 8 lb ft. Determine the disk's rotation if the end of the spring wraps around the periphery of the disk as the disk turns. The spring is originally unstretched.

