Announcements

- Last day of class: Monday, Dec. 9

- No discussion sections next week

- Last day of office hours and Piazza help: Wednesday, Dec. 12
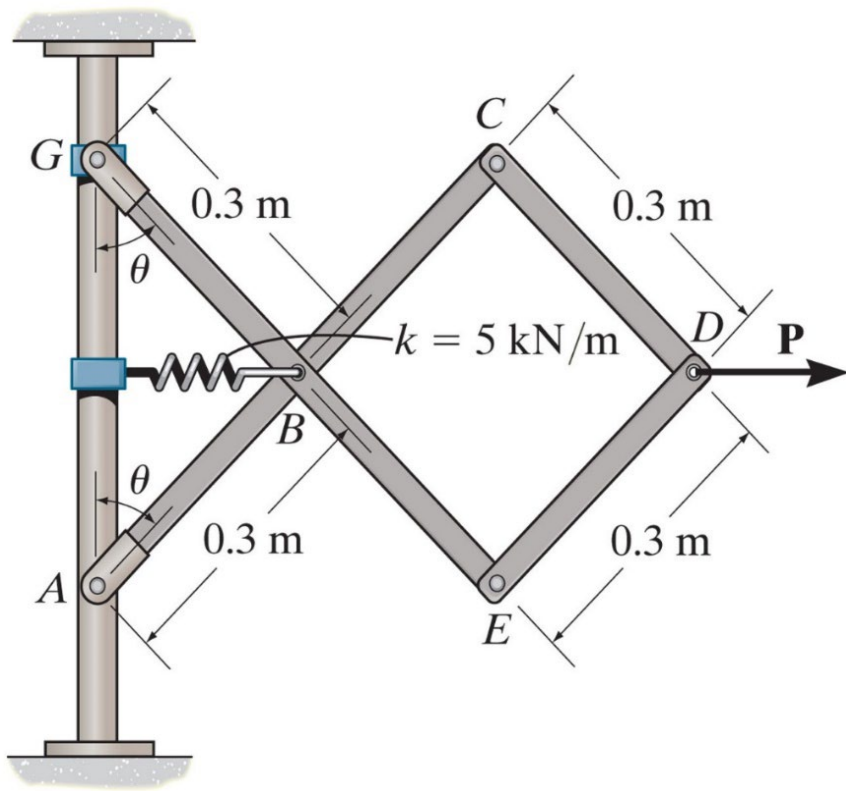
- CBTF (last) Quiz 6 starts Thursday, Dec. 14

❑ Upcoming deadlines:

- Friday (12/7)
 - Written assignment 9
- Tuesday (12/11)
  - Last PL HW

HAPPY NINJA DAY!

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Determine the required force P needed to maintain equilibrium of the scissors linkage when the angle is 60 degrees. The spring is unstretched when the angle is 30 degrees.

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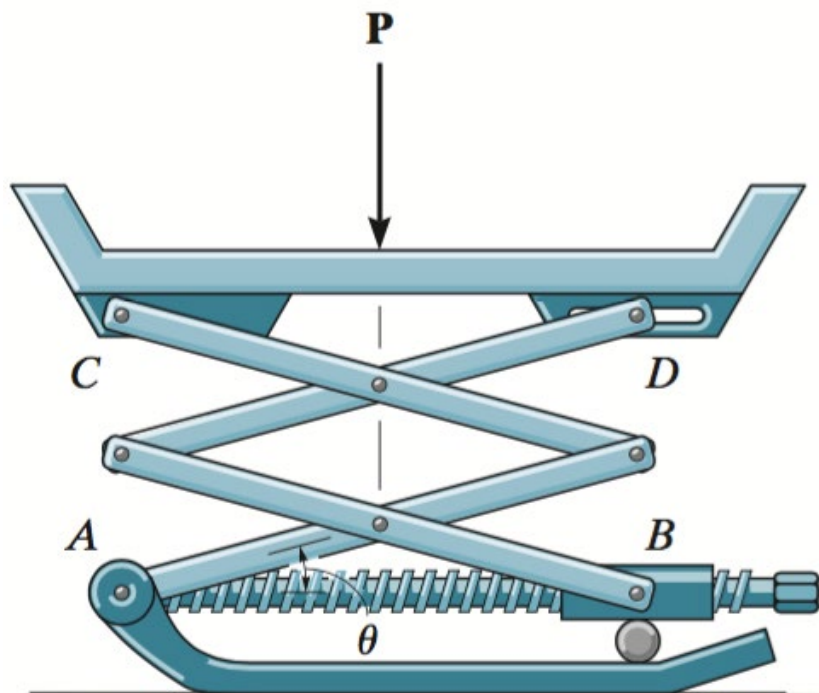
The disk has a weight of 10 lb and is subjected to a vertical force P = 8 lb and a couple moment M = 8 lb ft. Determine the disk's rotation u if the end of the spring wraps around the periphery of the disk as the disk turns. The spring is originally unstretched.

$M = 8$ lb · ft

1.5 ft

$k = 12$ lb/ft

$P = 8$ lb