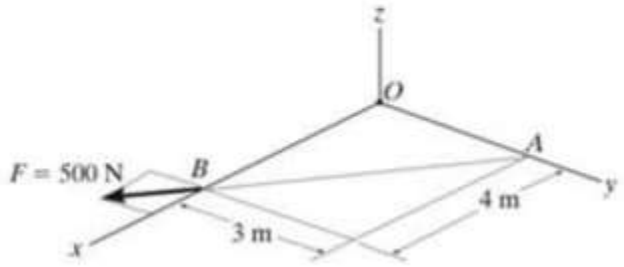
ENGR 8 Assignment 5 In Class Problems

Ch4 – F10,F11,F12,39,45,46

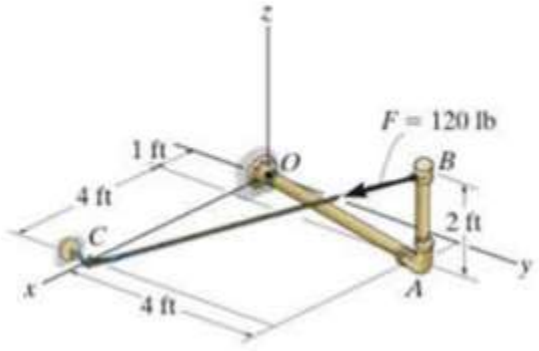
Ch4 – F13,F14,F18,55

F4–10. Determine the moment of force **F** about point *O*. Express the result as a Cartesian vector.



Mo = -1200 k

F 4–11. Determine the moment of force **F** about point *O*. Express the result as a Cartesian vector.



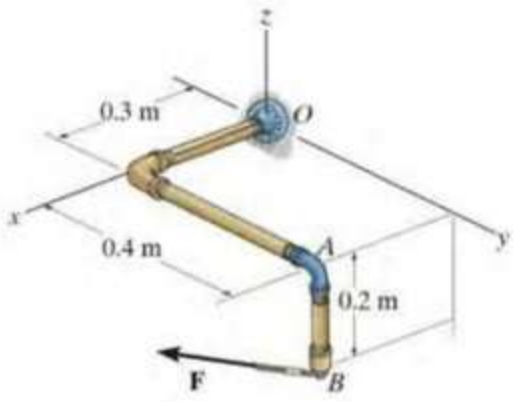
Mo = 200j – 400k

F4–13. Determine the magnitude of the moment of the force $\mathbf{F} = \{300\mathbf{i} - 200\mathbf{j} + 150\mathbf{k}\}$ N about the x axis. Express the result as a Cartesian vector.

Mx = 20 N-m

F4–14. Determine the magnitude of the moment of the force $\mathbf{F} = \{300\mathbf{i} - 200\mathbf{j} + 150\mathbf{k}\}$ N about the OA axis. Express the result as a Cartesian vector.

Moa = -72 N-m



F4–13/14