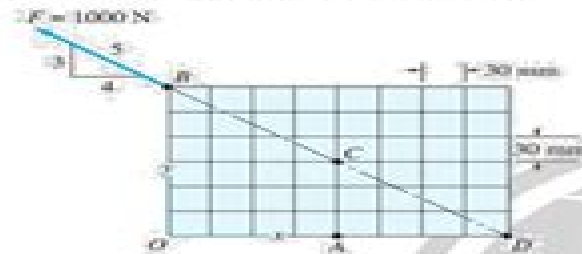


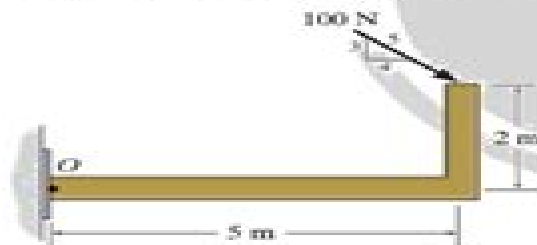
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Class Room Questions

1. [NAT]

The moment of force F about point A is _____ N-m.

2. [NAT]

The moment of the force about point O is _____ N-m.

3. [MCQ]

Find the moment about the point $i + 2j + 3k$ of a force represented by $i + j + k$ acting through the point $-2i + 3j + k$.

- (a) $i + 2j - 3k$ (b) $-i - 2j + 3k$
 (c) $3i + j - 4k$ (d) $-3i - j + 4k$

4. [NAT]

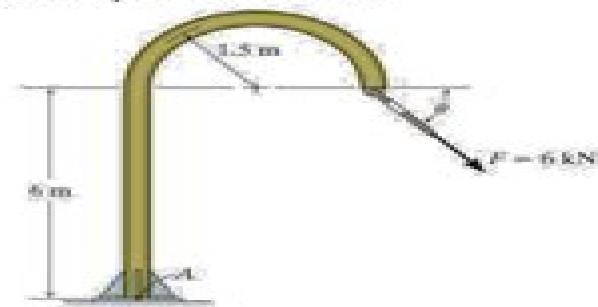
The moment of a force $F = (3i - j + 2k)$ kN passing through point $(4, 1, -2)$ m about point $(2, 0, 4)$ m is _____ kN-m.

5. [MCQ]

If a force of magnitude F can be applied in four different 2-D configurations (P, Q, R & S), select the cases resulting in the maximum and minimum torque values on the nut. (Max, Min).

- (a) (Q, P)
 (b) (R, S)
 (c) (P, R)
 (d) (Q, S)

6. [NAT]

Find the angle θ (in deg) for which the moment of the force F at point A is maximum.

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