



PROBLEM 10-10

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Problem 10-10: A bracket is subjected to a force P applied at the end of the arm. The force P is directed vertically downwards. The bracket is supported by a pin support at the base of the vertical plate and a roller support at the end of the arm. The distance from the pin support to the roller support is L . The force P is applied at a distance L from the roller support. The weight of the bracket is negligible.

1. Draw a free-body diagram of the bracket.
2. Determine the reaction forces at the pin support and the roller support.
3. Determine the internal forces at the junction of the vertical plate and the horizontal arm.

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