

The diagram shows a horizontal beam of total length 0.4 m, divided into two equal segments of 0.2 m each. A uniformly distributed load of 157.0 N/m is applied downwards along the entire length of the beam. The beam is supported by a pin support at the left end (x=0.0) and a roller support at the right end (x=0.4). Reaction forces are indicated at both supports: a vertical reaction of 166.29 N upwards at the pin support and a vertical reaction of 165.81 N upwards at the roller support. The beam is divided into segments of 0.2000 m each, with intermediate points marked at 0.1000 m and 0.3000 m. The distributed load is represented by a series of downward-pointing arrows along the top of the beam.



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