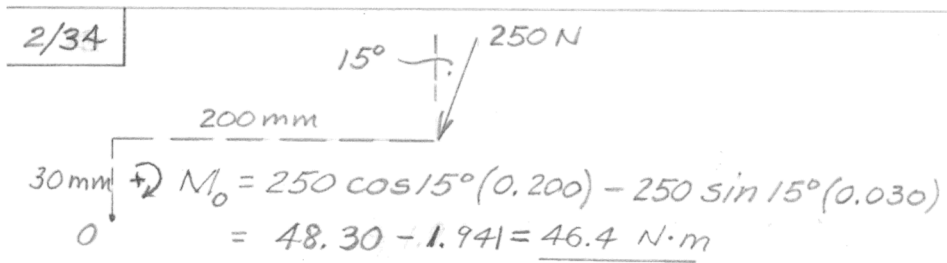


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A diagram showing a force vector of 250 N acting at an angle of 15° to the vertical. The force is applied at a point that is 200 mm horizontally and 30 mm vertically from a point O. The moment about O is calculated as follows:

$$\begin{aligned} +\circlearrowleft M_O &= 250 \cos 15^\circ (0.200) - 250 \sin 15^\circ (0.030) \\ &= 48.30 - 1.941 = \underline{46.4 \text{ N}\cdot\text{m}} \end{aligned}$$

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