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This is a non-trivial step, akin to a one month old's apprehension that there are ... engineering mechanics, to venture forth and construct reaction forces out of thin air. They are there, hidden at the interface of your particle with the rest ...

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Engineering Mechanics - Statics Chapter 3 $\theta = 44.43$ deg T = 107.14 N M = 15.60 kg Problem 3-30 Prove Lami's theorem, which states that if three concurrent forces are in equilibrium, each is proportional to the sine of the angle of the other two; that is, $P/\sin \alpha = Q/\sin \beta = R/\sin \gamma$.

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