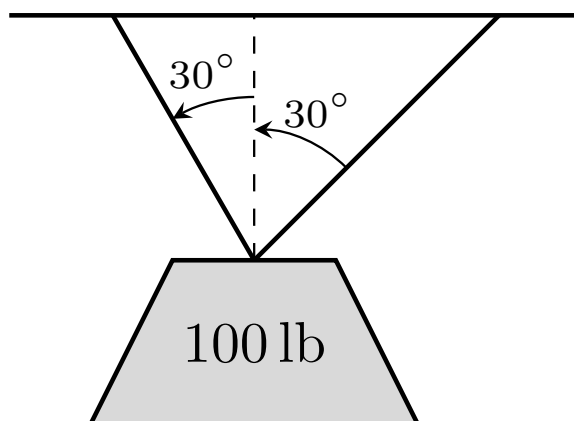**Exercise**   **1**   *Consider a weight of 100 lb hanging from two chains:*

Find the magnitude of the force applied to each chain.

$$\textit{Magnitude of the force on the left chain} = \boxed{100/\sqrt{3}} \text{ lb}$$

$$\textit{Magnitude of the force on the right chain} = \boxed{100/\sqrt{3}} \text{ lb}$$

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