

Def. (Degree, minute, and second notation) In the eartest of angle measure, 1' = 0 minute = $\left(\frac{1}{60}\right)(1^{\circ})$ and 1" = one second = $\binom{1}{60}(1') = \binom{1}{3600}(1^0)$. Example 140 37 23 = 147 37 + 23 = 14.62310 Example The manufacturer of a certain brand of 16-foot ladder recommends that, when in use, the angle between the ground and the ladder should equal 75°.
What distance should the foot of the ladder be from the base of the wall it is leaving against? Solution

