

MAT130 HW1

Each problem is worth 2 points

Problem 32 from 1.1 Compare the angles: $\alpha = 80.668^\circ$ and $\beta = 80^\circ 40' 20''$.

Problem 40 from 1.1 Given $s = 12\text{m}$ and $C = 108\text{m}$, find θ .

Problem 4 from 1.2 Given two similar triangles, find the unknown length: $b = 3$, $c = 24$, $b' = 1$, $c' = ?$

Problem 26 from 1.3 Find θ to the nearest degree if $\tan \theta = 1$.

Problem 2 from 1.4 A ladder 8m long is placed against a building. The angle between the ladder and the ground is 61° . How far is the foot of the ladder from the building ?