SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. If the angle of elevation of the sun is 30 degrees, how tall is a 10 m pole casting a shadow? (2023)

A. 5 m
B. 10 m
C. 15 m
D. 20 m

*Solution: Height = shadow * tan(angle) = 10 * tan(30) = 10 * (1/√3) ≈ 10 m.*

Q2. If the angle of elevation of the sun is 30 degrees, how tall is a 10-meter pole casting a shadow of 10√3 meters? (2023)

A. 5 m
B. 10 m
C. 15 m
D. 20 m

*Solution: Height = Shadow * tan(30) = 10√3 * (1/√3) = 10 m.*

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