



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 $10\sqrt{3}$ meters? (2023)

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

*Solution: Height = Shadow * tan(30) = $10\sqrt{3} * (1/\sqrt{3}) = 10$ m.*



