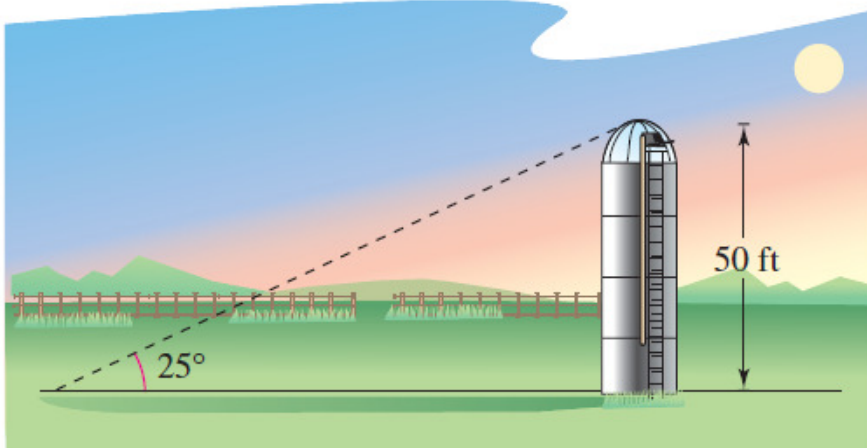


Mastery Check

- 1) *Length* The sun is 25° above the horizon. Find the length of a shadow cast by a silo that is 50 feet tall (see figure).



- 2) *Depth* The sonar of a navy cruiser detects a submarine that is 4000 feet from the cruiser. The angle between the water line and the submarine is 34° (see figure). How deep is the submarine?

