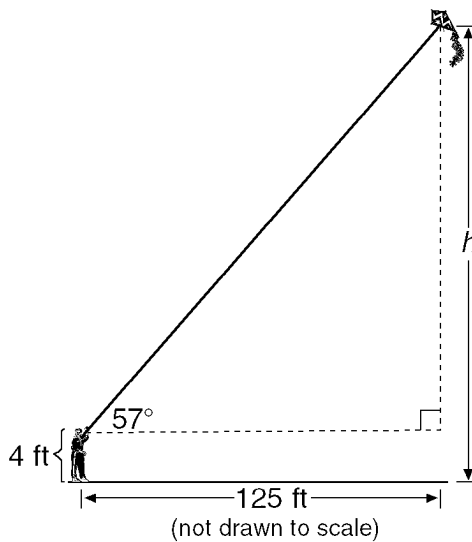


- 4) A ship on the ocean surface detects a sunken ship on the ocean floor at an angle of depression of 50° . The distance between the ship on the surface and the sunken ship on the ocean floor is 200 meters. If the ocean floor is level in this area, how far above the ocean floor, to the nearest meter, is the ship on the surface? [Show all work.]

- 5) Marcel is holding his kite string 4 feet above the ground, as shown in the accompanying diagram. The distance between his hand and a point directly under the kite is 125 feet. If the angle of elevation to the kite is 57° , find the height (h) of his kite, to the nearest foot.



1) 33°

2) 51 feet

3) 3,436 ft

4) 153 meters

WORK SHOWN: $\sin 50^\circ = \frac{x}{200}$

5) 196 ft