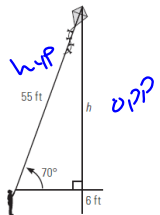


Example 4 Warm-up:

The angle of elevation of Sandra's kite string is 70° . If she has let out 55 feet of string, and is holding the string 6 feet above the ground, how high is the kite?

SOLUTION

Sketch and label a diagram.


$$\sin 70^\circ = \frac{h}{55}$$
$$h = 51.7 \text{ ft}$$
$$= 51.7 \text{ ft} + 6 \text{ ft}$$
$$= 57.7 \text{ ft off the ground}$$

Apr 5-10:50 PM

Test Review sheets:

Chapter 7 Angles

Chapter 8 Pythagorean Theorem & Trig

Dec 4-11:55 AM