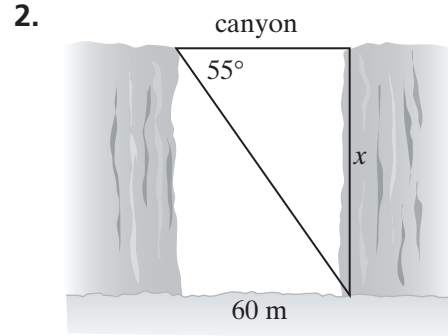
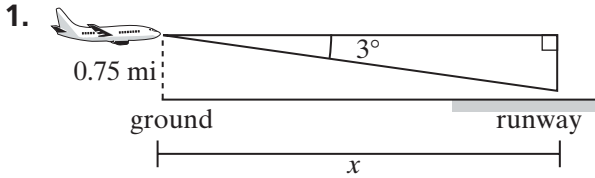


Practice 11-7

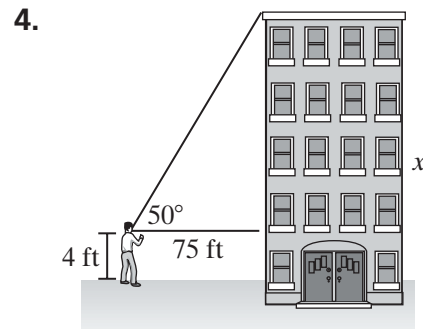
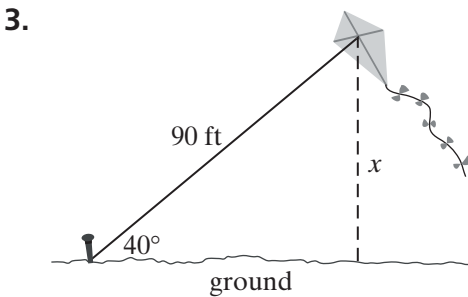
Angles of Elevation and Depression

Find x to the nearest tenth.



$x \approx$ _____

$x \approx$ _____



$x \approx$ _____

$x \approx$ _____

Solve each problem. Round to the nearest unit.

5. A helicopter is rescuing a would-be mountain climber. The helicopter is hovering, so there is an angle of depression of 35° from the helicopter to the climber. The bottom of the helicopter's 12-meter ladder is hanging even with the climber. How far does the helicopter need to move horizontally to be directly above the climber?

6. Kara's kite is flying at the end of 35 yards of string. Her end of the string is 1 yard off the ground. The angle of elevation of the kite is 50° . What is the height of the kite from the ground?

7. Karl is standing 80 ft from the base of a tree. He sees the top of the tree from an angle of elevation of 42° . His eye is 4.5 feet off the ground. How tall is the tree?
