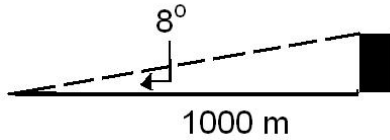
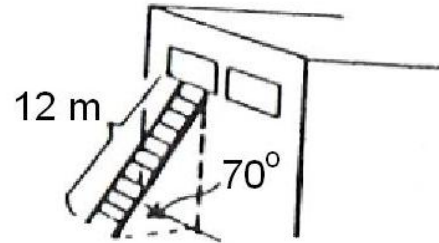


**DIRECTIONS:** Give lengths to the nearest tenth of a unit and angle measures to the nearest degree.

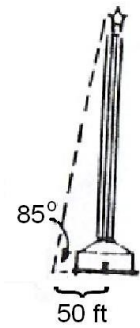
1. How tall is the building? **140.5 m**



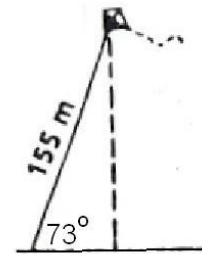
2. How far up will the ladder reach? **11.3 m**



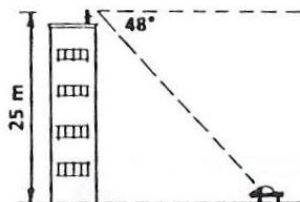
3. How tall is the monument? **571.5 ft**



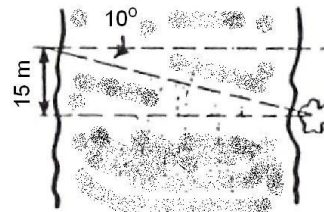
4. How high above the ground is the kite? **148.2 m**



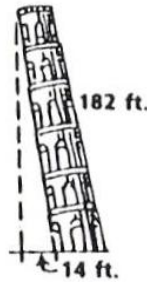
5. How far from the building is the car? **22.5 m**



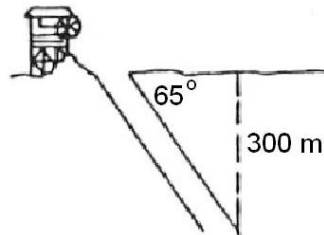
6. How wide is the river? **85.1 m**



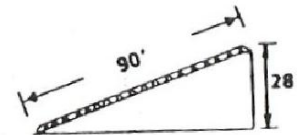
7. A rock dropped from the top of the Leaning Tower of Pisa falls to a point 14 feet from its base. If the tower is 182 feet tall, at what angle does it lean at the ground? **86°**



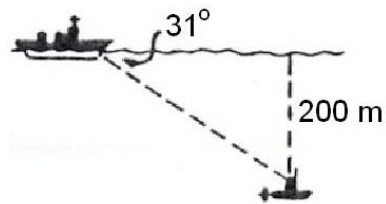
8. A mine shaft is 300 m deep and makes an angle of 65° with the horizontal ground. How long is the shaft? **331.0 m**



9. A 90-foot escalator rises 28 feet vertically. What is the angle that the escalator makes with the floor? **18°**



10. Sonar on a destroyer detects a submarine at a depth of 200 m. If the angle is 31°, how far apart are the two vessels? **388.3 m**



11. A ladder is mounted on a fire truck, six feet above the ground. If the maximum length of the ladder is 120 feet and the maximum angle to which it can be raised is 75°, how high up will it reach?  
**121.9 ft (remember that the ladder doesn't start on the ground)**

