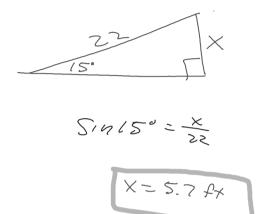
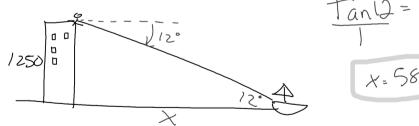
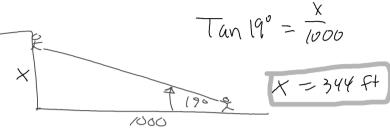
A 22 foot long ramp runs from the parking lot up to the loading dock of a building. The ramp makes a 15° angle with the ground. How high above the parking lot is the loading dock? Round to the nearest tenth of a foot.



You are at the top of the Empire State Building in New York City, 1250 above the ground. You see a ship on the East River with an angle of depression of 12°. How far away from the Empire State Building is the ship? Round to the nearest whole foot.

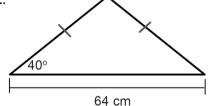


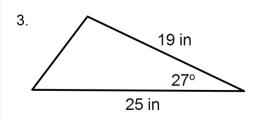
You are 1000 feet from the base of a cliff and see a rock climber with an angle of elevation of 19°. How high up on the cliff is the rock climber? Round to the nearest whole foot.



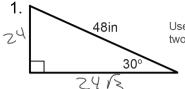
Find the area of each triangle. Round to the nearest tenth where necessary. 2.

1. 48in 30°





Find the area of each triangle. Round to the nearest tenth where necessary.



Use the relationships in a 30-60-90 triangle to find the two legs.

A= { 64(3)(24) = 496-5 102

3.

Draw the height from the base to the opposite vertex.

