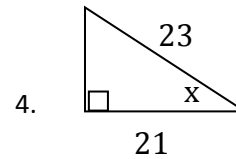
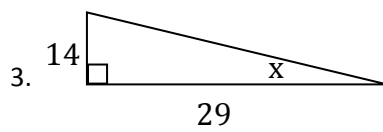
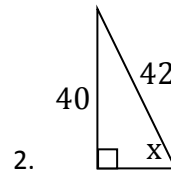
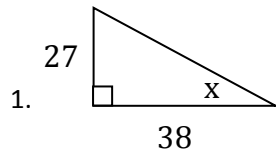
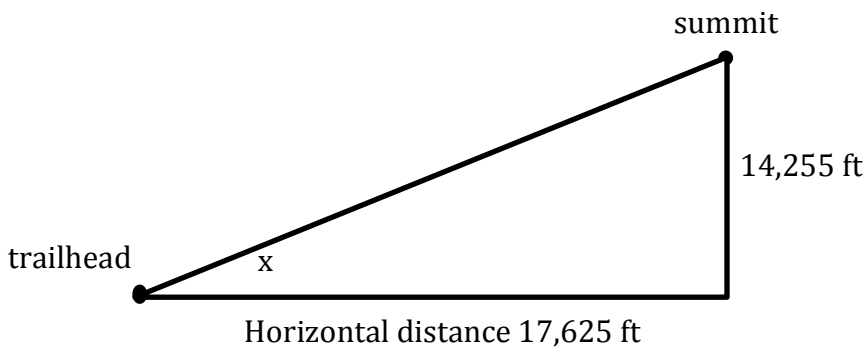


Find the measure of the indicated angle to the nearest degree.



5. You are hiking up a mountain peak. You begin hiking at a trailhead. The trail ends near the summit at 14,255 ft. The horizontal distance between these two points is about 17,625 feet. Estimate the angle of elevation,  $x$ , from the trailhead to the summit. Round your answer to the nearest tenth.



6. During its approach to Earth, the space shuttle's glide angle changes. When the space shuttle is 5 miles from the runway, its glide angle is about 19 degrees. Find the shuttle's altitude at this point in its descent. Round your answer to the nearest tenth.

