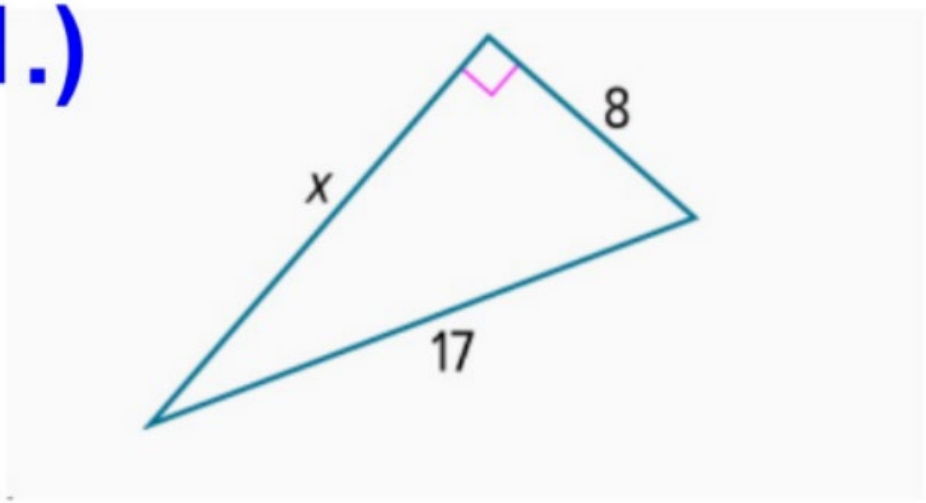
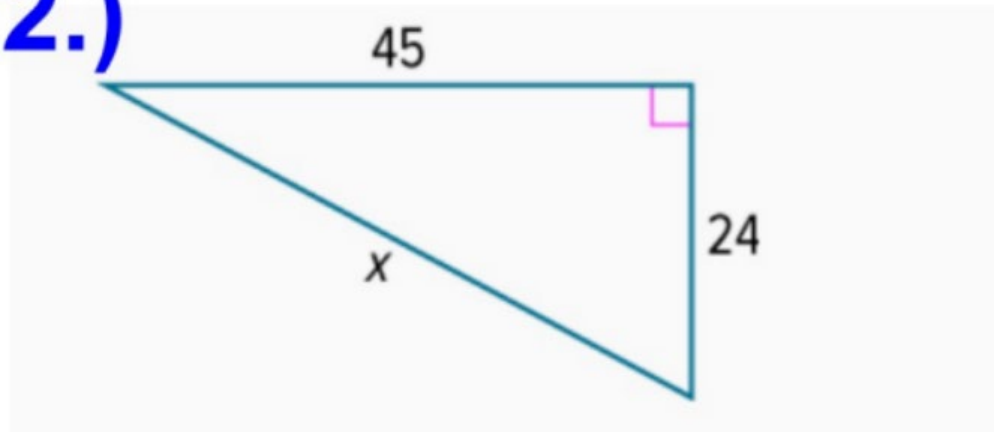
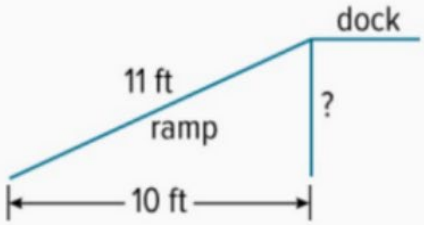
1.)



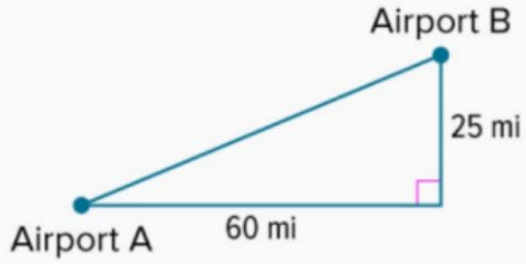
2.)



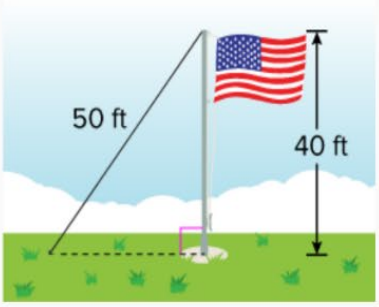
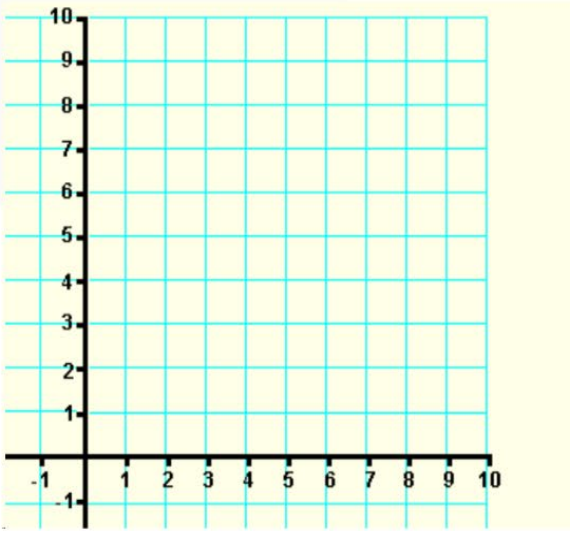
3.) The bottom end of a ramp at a warehouse is 10 feet from the base of the main dock, and the ramp is 11 feet long. How high is the dock? (Example 3)



4.) An airplane lands at an airport 60 miles east and 25 miles north of where it took off. How far apart are the two airports? (Example 3)



5.) To help support a flag pole, a 50-foot-long tether is tied to the pole at a point 40 feet above the ground. The tether is pulled taut and tied to an anchor in the ground. How far away from the base of the pole is the anchor?



6.) Determine whether the points $A\,(2, 2)$, $B\,(5, 7)$, and $C\,(10, 6)$ can be the vertices of a triangle. If so, classify the triangle as acute, right, or obtuse. Justify your answer.