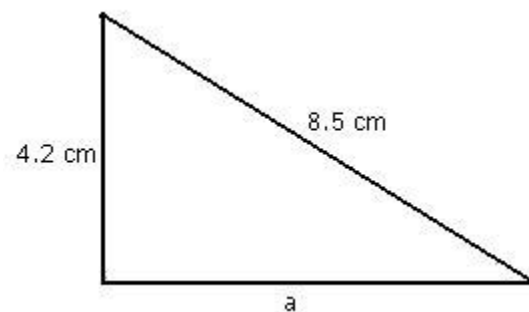
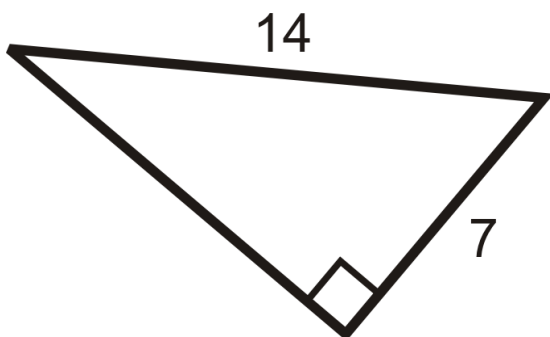
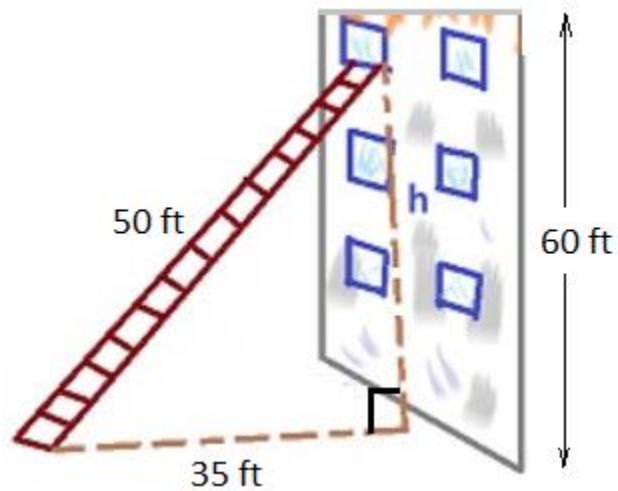
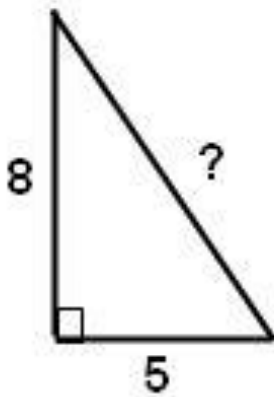
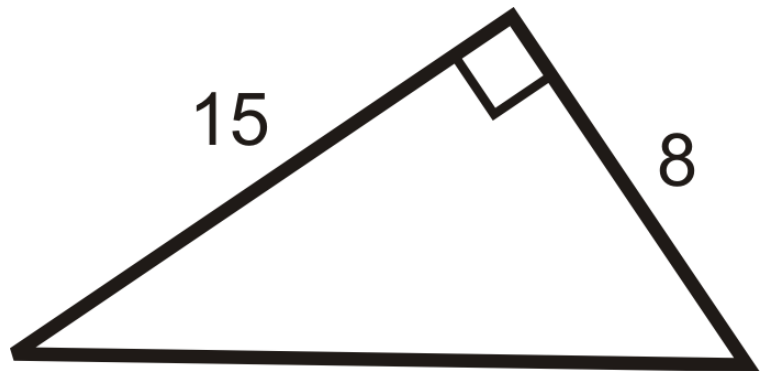
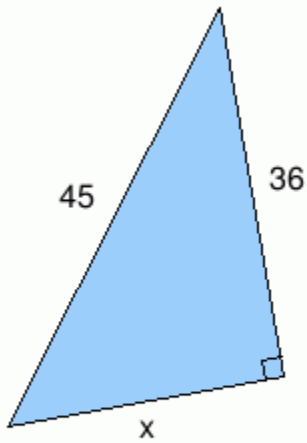


**Proficiency Ladder 8.G.7 and 8.NS.2 Study Guide –**

Find the missing side lengths of the triangles below. If the answer is irrational find an approximation to the nearest tenth without using a calculator.



The main mast of a fishing boat is supported by a sturdy rope that extends from the top of the mast to the deck. If the mast is 20 feet tall and the rope attaches on the deck 15 feet away from the mast, how long is the rope?