



Skylar's friend, Doug, is taking a hot air balloon ride, and Skylar is helping out at the launch site. While up in the balloon, Doug takes a picture of Kyle, another friend, who is waiting to help safely lower the balloon at the landing point, 3 miles from the launch site. Doug wants to know how far away from Kyle he is when he takes the picture. With the help of clinometer applications on their phones, Skylar and Kyle determined that the angles of elevation from the launch point and landing point are 16° and 8° respectively. Use the Law of Sines and help Skylar and his friends determine how far Doug is from Kyle.