

Math 1060
Chapter 6 Review

1. Use the law of sines or cosines to solve the following triangles
 - (a) $B = 10^\circ$, $C = 20^\circ$, $c = 33$
 - (b) $B = 64^\circ$, $C = 36^\circ$, $a = 367$
 - (c) $B = 25^\circ$, $a = 6.2$, $b = 4$
 - (d) $a = 5$, $b = 8$, $c = 10$
 - (e) $C = 43^\circ$, $a = 22.5$, $b = 31.4$
2. Find the area of the following triangles
 - (a) $B = 80^\circ$, $a = 4$, $c = 8$
 - (b) $a = 12.3$, $b = 15.8$, $c = 3.7$
3. From a certain distance, the angle of elevation to the top of a building is 17° . At a point 50 meters closer to the building, the angle of elevation is 31° . Approximate the height of the building.
4. Two planes leave an airport at approximately the same time. One is flying 425 miles per hour at a bearing of 355° , and the other is flying 530 miles per hour at a bearing of 67° . Determine the distance between the planes after they have flown for 2 hours.
5. An airplane has an airspeed of 724 kilometers per hour at a bearing of 30° . If the wind velocity is 32 kilometers per hour from the west, find the groundspeed and the direction of the plane.

Also review all of your homework