January 12th, 2012

5.1: Using Point of Intersection to Solve Problems

Questions:

1. A dangerous lion is tied up to a post at map coordinates (40, 10) with a 6 meter long chain. A jeep tour is at (-20, 60) and is heading straight for (50, -10). If the jeep tour maintains the same course, how close will the jeep get to the lion post? Are the tour participants safe from the lion?
2. A plan shows the position of three entrances of a parking lot. Entrance A is located at (-10, 14), entrance B at (-8, 8), and entrance C at (16, 12). A tall mast light is to be constructed to illuminate the three entrances. Where should the light be located to illuminate each entrance equally? Round to two decimal places.