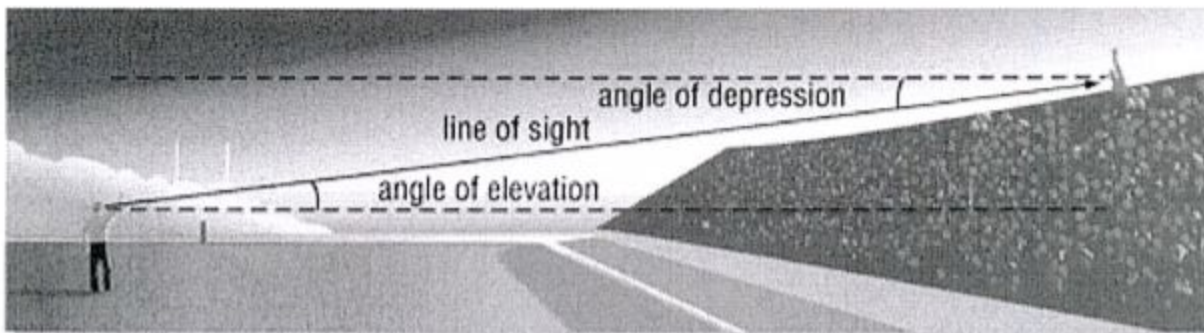


**Angle of Elevation**

**Angle of Depression**



1. Leah wants to see a castle in an amusement park. She sights the top of the castle at an angle of elevation of  $38^\circ$ . She knows that the castle is 190 feet tall. If Leah is 5.5 feet tall, how far is she from the castle to the nearest foot?
  
  
  
  
  
  
  
  
  
  
2. The cross bar of a goalpost is 10 feet high. If a field goal attempt is made 25 yards from the base of the goalpost that clears the goal by 1 foot, what is the smallest angle of elevation at which the ball could have been kicked to the nearest degree?

