IE-341
Section 1, CRN: 30512/513/514
Section 2, CRN: 30515/516/517
Section 3, CRN: 38299/300/301
Section 4, CRN: 65886/887/888

First Semester 1438-39 H (Fall-2017) – 3(2,1,2)
"HUMAN FACTORS ENGINEERING"

Monday, November 20, 2017 (02/03/1439H)

Tutorial 7: Visual Angle - Acuity

Name:	Student Number: 43	Section: Mon@8/ Mon@10 / Tu / Wed

Answer ALL of the following questions

1. What minimum visual angle can a person with 20/30 acuity resolve?

   A. 0.5 arc-minute

   B. 1.0 arc-minute

   C. 1.5 arc-minute

   D. 2.0 arc-minute

2. The visual angle subtended by an 8-inch wide light bulb, viewed from 200 feet is …

   A. 1.0 arc-minute

   B. 6.7 arc-minute

   C. 11.46 arc-minute

   D. 30 arc-minute

3. A person who can resolve a minimum visual angle of 0.8 arc minutes has a visual acuity of:

   A. 20/20

   B. 20/16

   C. 20/25

   D. 20/0.8

4. A 1-inch wide target is just identifiable to an observer with 20/20 visual acuity. The target is how far away from the observer's eyes?

   A. 4.8 feet

   B. 63.9 feet

   C. 286.5 feet

   D. 3438 feet

5. A worker's job is to detect a 0.01 inch space between two wires on an electronic component. One day the worker forgets his glasses (he has 20/50 uncorrected vision). What is the farthest distance away the worker can be and still see the space between the wires?