

Math 1030e November 30, 2006 Homework 19

Text problems: 8.2 # 12, 13

1) Using the z table (E), find the critical value(s) for each.

a) $\alpha = 0.10$ right tailed test

b) $\alpha = 0.05$ two tailed test

2) For each conjecture, state the null and alternative hypothesis.

a) The average annual income for a physician is \$134,508.

b) A GE 60 watt light bulb lasts over 1200 hours.

c) No human can run a mile in less than 4 minutes.

d) No human can go faster than the speed of sound (761 mph.).