7a). Joinen 1=55, Mean of the sample = 11.0 8/ 100ml, sold deviation = 2.18/100 ml and mean of the population = 10.20/100ml HO mean = 10.2 8/100ml Ha mean <> 10.2 8/100ml Library (visualize) Zvalue = (11-10.2) / (2.1/sqrt(55))) prom (zvalue) doorm (zvalue) prenm (2.825218) - provm (-2.825218) gnorum (0.05) Visualize norm (estat = zvalue, mu =0, od= 1, rection = "upper")

7b). # Example bottles are being produc
with mean 151.8 and 2d=2.
Sample of 100 bottles whow the men
of 152. Check if the mean has
increated
$H_0 = 150$
HA > 150
library (visualize) zvalue = (152 - 151.8) / (2/sort (100))
zvalue = (152'-151.8) / (2/ sort (100))
200/me / 0 95)
9/10/m (0.95) 9/10/m (0.05)
7 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6
Visualize norm (stat = zvalue, mu = 0,
visualize norm (stat = zvalue, mu = 0, vod = 1, section = "upper")