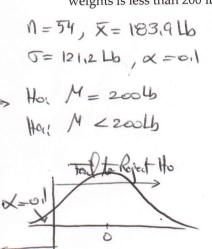
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Identify the null hypothesis, alternative hypothesis, test statistic, P-value, conclusion about the null hypothesis, and final conclusion that addresses the original claim.

1) The health of employees is monitored by periodically weighing them in. A sample of 54 employees has a mean weight of 183.9 lb. Assuming that σ is known to be 121.2 lb, use a 0.10 significance level to test the claim that the population mean of all such employees weights is less than 200 lb.

1) _____



te = -1,290

Hos H=200 Lb

Has M <200 Lb

There is not sufficient evidence
to reject the.

Fail to Reject the Stalto support the

Public = normaliself (-1E99, -1976)

= 0.165 7 O.1

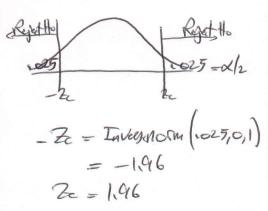
-0.1657 X

Ugair, fail to reject the

Stalto support the

2) A random sample of 100 pumpkins is obtained and the mean circumference is found to be 40.5 cm. Assuming that the population standard deviation is known to be 1.6 cm, use a 0.05 significance level to test the claim that the mean circumference of all pumpkins is equal to 39.9 cm.

N = 100, X = 40.5 Cm T = 1.6 Cm, X = 10.5How M = 39.4 CmHai M = 39.4 Cm



= (40.5-39.9)

= (40.5-39.9)

= 3.75

3.75 71.96

I the is sufficient evidence to Reject to sufficient evidence to Sufficient evidence to Sufficient the.

Parlie = 2 normalal f 375, 1E99)

= 2 normalal f - 1E99, -3,75)

= 1,769 x 15 4

1,769 x 15 4

Parlie < \alpha

Again strong evidence

to Reject Ho

strong evidence

to Support Ha