Akash

In class

1) $\frac{110}{150} = 0.7333$ Hypo pro = .70

$\sqrt{\frac{0.7 \cdot 0.3}{150}}$ $p = 0.03742$

$z = 0.891$

$P = 0.379$

$P > 0.05$

H_0 ✓

H_0 $P = 0.7$

H_a $P \neq 0.7$

P difference = 0.0333

Since $P > 0.05$, H_0 is accepted.

2) a)

b)

c)

d)

3) a) Null Hypothesis: $\mu = 2$

Alt Hypothesis $\mu \neq 2$

b) $\frac{s}{\sqrt{n}} = \frac{0.52391}{\sqrt{20}}$

$= 0.11715$

$t = \frac{(1.881 - 2)}{0.11715} = -1.0158$

c) p =

d) $\alpha = 0.05$

ndf $n-1 = 20-1 = 19$

$t = \pm 2.930$

$t = -1.0158 > t = -2.0930$

Difference not significant

Fail to reject null hypothesis

e) The data doesn't support claim of the mean surface coated pipe differ from 2.

Not sufficient evidence

f) : Type II error, since mean differs from 2. Fail to reject false null hypothesis.