

T. 9.16.

a) From THE NUMBERS AND USING
EQ. (9.15) OR YOUR CALCULATOR,

$$r = -0.89$$

THE NEGATIVE SIGN MEANS THAT THE
2 VARIABLES TEND TO RUN IN OPPOSITE
DIRECTIONS. FROM APPENDIX C, THE
 $\text{PROB}_N(|r| \geq r_0)$, w/ $r_0 = 0.89$, = 3.7%
HENCE, THE CORRELATION IS "SIGNIFICANT."

b) SAME DRILL. FROM THE NUMBERS,

$$r = -0.71$$

$\text{PROB}_N(|r| \geq 0.71) = 19\%$ FOR $N=5$

USING THE 5% RULE, WE SAY THAT
THE CORRELATION IS NOT SIGNIFICANT.

PLOTS ARE BELOW.



