## Slide 9.

## Steps 1-3:

Claim: there is a linear correlation setween pulled rate and white slood all ounts.

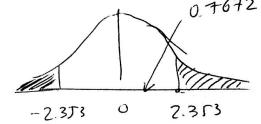
n=5 hypothers: the p=0 H1: P=0.

slep 4. signifique tevel: x = 0.05.

 $\frac{1-r^2}{n-2} = \frac{0.405}{\sqrt{\frac{1-0.405^2}{5-2}}} = 0.7672.$ 

it pllows a student t distribution with n-2=3 degrees of predom.

step 6: to and -to.  $t_{x} = 2.353$  $-t_{x} = -2.353$ 



step 7: we fail to reject the null hypothesis. Seconde the tstat is solveen to = 2.353 and -ta = -2.353.

there is not enough evidence to say that there is a linear correlation between pulse rate and white shoot all counts.

the type of error that we could be making is the type I emor, which is to just to reject thinken the will hypothesis is false.

repression equation

$$(x_{1} \times y_{1})$$

$$(x_{2} \times y_{2})$$

$$(x_{2} \times y_{2})$$

$$(x_{2} \times y_{2})$$

$$(x_{3} \times y_{2})$$

$$(x_{4} \times y_{2})$$

$$(x_{4} \times y_{3})$$

$$(x_{5} \times y_{2})$$

$$(x_{6} \times y_{2})$$

$$(x_{6} \times y_{3})$$

$$(x_{1} \times y_{3})$$

$$(x_{1} \times y_{3})$$

$$(x_{2} \times y_{3})$$

$$(x_{3} \times y_{3})$$

$$(x_{4} \times y_{3})$$

$$(x_{5} \times y_{3})$$

$$(x_{6} \times y_{3})$$

$$(x_{1} \times y_{3})$$

$$(x_{1} \times y_{3})$$

$$(x_{2} \times y_{3})$$

$$(x_{3} \times y_{3})$$

$$(x_{4} \times y_{3})$$

$$(x_{5} \times y_{3})$$

$$(x_{6} \times y_{3})$$

Stidu 16.  

$$\hat{Y} = b_0 + b_1 \times b_0 = \hat{y} - b_1 \times b_1 = r \cdot sy \cdot sx$$

1: white 5/200 all court X: pulse rate.

$$61 = 0.405 \cdot \frac{1.916}{12.884} = 0.0602$$

$$\hat{Y} = 3.0244 + 0.0602 \times$$

prediction: 
$$\hat{\gamma} = 3.0244 + 0.0602.70$$
.

