

Type I: reject $H_{0}$ when it's true. Evil. that more students choose RF tire, when each tire is actually equally likely.
Type II: fail to reject Ho when it's false Not enough evid. To say more choose RF when they really do
C) Calculate Power



$$
\alpha=.05
$$

Find $X$ so that .05 is to right:

$$
z=\text { inrnorm }(.95)=1.645
$$

$$
1.645=\frac{x-.25}{.0433}
$$

$$
\begin{aligned}
& z=\frac{.321-.30}{.0458}=.46 \\
& \operatorname{Pr}(z>.46)=3215
\end{aligned}
$$



Type I):


Evil. Shows

but it isn't
Type II Show disc. put they are

