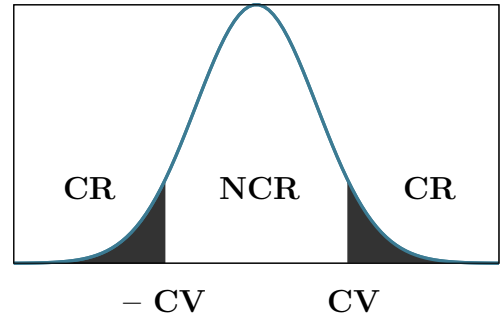


Hypothesis Testing for One Population Proportion

Two-Tail Test:

$$H_0 : P = P_0$$

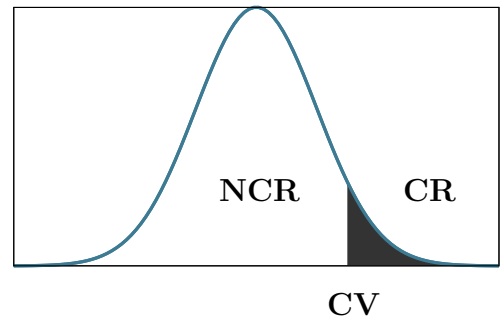
$$H_1 : P \neq P_0$$



Right-Tail Test:

$$H_0 : P \leq P_0$$

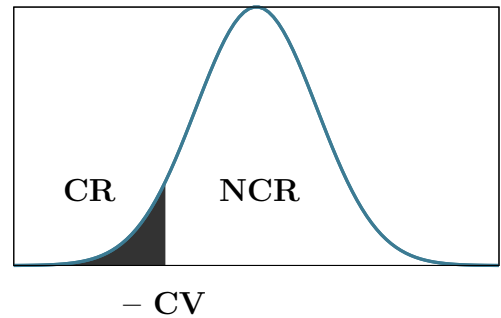
$$H_1 : P > P_0$$



Left-Tail Test:

$$H_0 : P \geq P_0$$

$$H_1 : P < P_0$$



Critical Value(s):

- Using TI program ZVAL: `PRGM > ZVAL > ENTER` (Twice)
 - Using TI option InvNorm: `2ND > VARS > InvNorm > ENTER`
-

Computed Test Statistic & P-Value:

- Using TI option **1-PropZTest**: `STAT > TESTS > 1-PropZTest > ENTER`
 - Using formula for C.T.S.:
$$z = \frac{\hat{p} - p}{\sqrt{\frac{pq}{n}}}$$
 - Using **normalcdf**(for P-Value: `2ND > VARS > normalcdf(> ENTER`
-