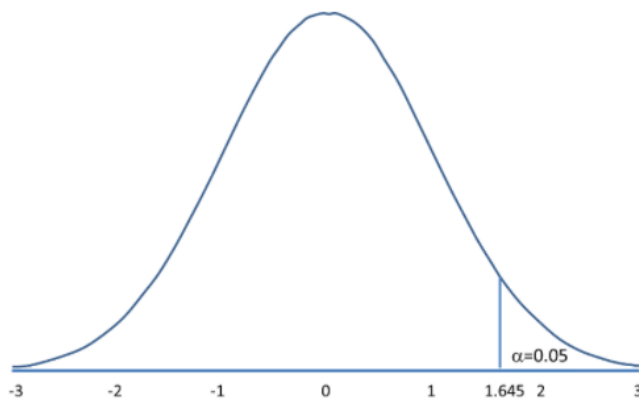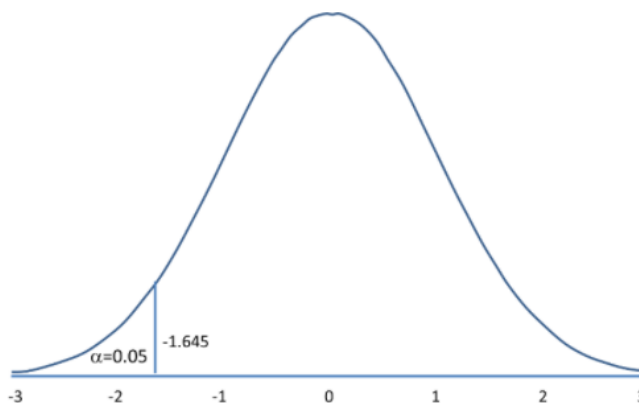# Hypothesis Testing : Decision Rules

Rejection Region for Upper-Tailed Z Test ($H_1: \mu > \mu_0$) with $\alpha=0.05$
The decision rule is: Reject H_0 if $Z \geq 1.645$.
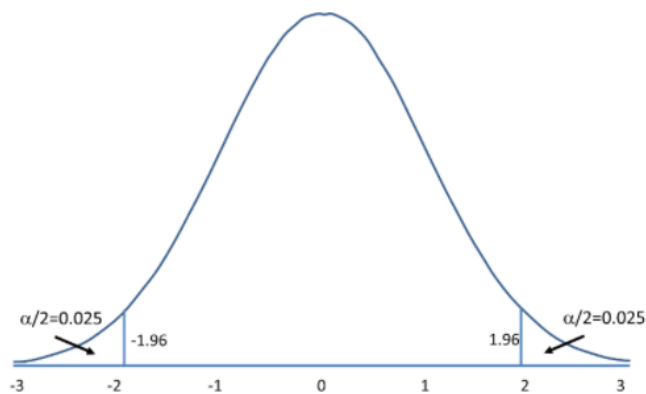
Upper-Tailed Test	
α	Z
0.10	1.282
0.05	1.645
0.025	1.960
0.010	2.326
0.005	2.576
0.001	3.090
0.0001	3.719

Rejection Region for Lower-Tailed Z Test ($H_1: \mu < \mu_0$) with $\alpha =0.05$
The decision rule is: Reject H_0 if $Z \leq 1.645$.

Lower-Tailed Test	
a	Z
0.10	-1.282
0.05	-1.645
0.025	-1.960
0.010	-2.326
0.005	-2.576
0.001	-3.090
0.0001	-3.719

Rejection Region for Two-Tailed Z Test ($H_1: \mu \neq \mu_0$) with $\alpha =0.05$
The decision rule is: Reject H_0 if $Z \leq -1.960$ or if $Z \geq 1.960$.

Two-Tailed Test	
α	Z
0.20	1.282
0.10	1.645
0.05	1.960
0.010	2.576
0.001	3.291
0.0001	3.819