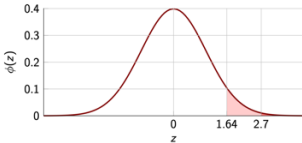


## p-value in a One-sided Upper-Tailed Test ( $H_1: \theta > \theta_0$ ):

- With known variance, the  $p$ -value is  $1 - \Phi(z)$ .
- With unknown variance, the  $p$ -value is  $1 - F(t)$ .



If  $z = 2.7$  and  $H_1: \theta > \theta_0$  then  $p = 0.003467$ . The lighter shading is  $R$  for  $\alpha = 0.05$ .