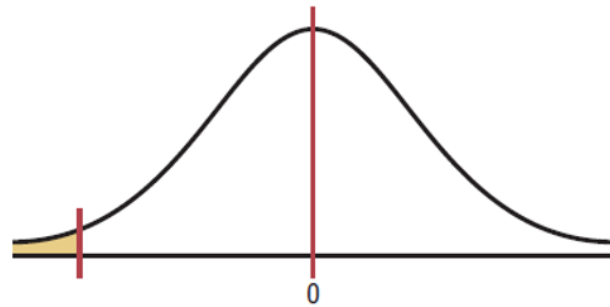


## z-test Critical Values

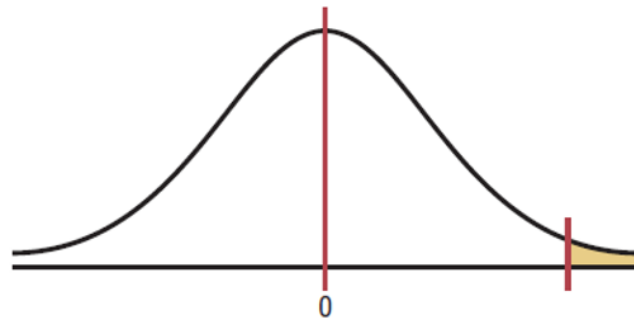
$$\begin{aligned} H_0: \mu &\geq k \\ H_1: \mu &< k \end{aligned} \begin{cases} \alpha = 0.10, \text{C.V.} = -1.28 \\ \alpha = 0.05, \text{C.V.} = -1.65 \\ \alpha = 0.01, \text{C.V.} = -2.33 \end{cases}$$

(a) Left-tailed



$$\begin{aligned} H_0: \mu &\leq k \\ H_1: \mu &> k \end{aligned} \begin{cases} \alpha = 0.10, \text{C.V.} = +1.28 \\ \alpha = 0.05, \text{C.V.} = +1.65 \\ \alpha = 0.01, \text{C.V.} = +2.33 \end{cases}$$

(b) Right-tailed



$$\begin{aligned} H_0: \mu &= k \\ H_1: \mu &\neq k \end{aligned} \begin{cases} \alpha = 0.10, \text{C.V.} = \pm 1.65 \\ \alpha = 0.05, \text{C.V.} = \pm 1.96 \\ \alpha = 0.01, \text{C.V.} = \pm 2.58 \end{cases}$$

(c) Two-tailed

