

1. S. 302 Nr. 8

a)

$$H_0 : p = 0.3 = 30 \%$$

$$s = 0.05 = 5 \%$$

$$n = 100$$

$$\mu = n \cdot p = 100 \cdot 0.3 = 30$$

$$\sigma = \sqrt{n \cdot p \cdot (1 - p)}$$

$$= \sqrt{30 \cdot 0.7}$$

$$= \sqrt{21}$$

$$\approx 4.51$$