5.3.1
$$\mu = 100$$
 $a = 15$
 $n = 50$
 $a = 107.9$
 $1 - \alpha = 0.95$
 $a = 0.02.5$
 $a = 0.02.5$
 $a = 1.96$
 $a = 1.$

$$(y) P(x \ge y | x = 1) = P(x \ge y \land x = 1)$$

$$= P(x \ge y) \cdot P(x = 1)$$

$$= P(x \ge y) \cdot P(x = 1)$$

$$= P(x \ge y)$$

$$= P(x \ge y) \cdot Q(x = 1)$$

$$= P(x \ge y) \cdot Q(x = 1)$$