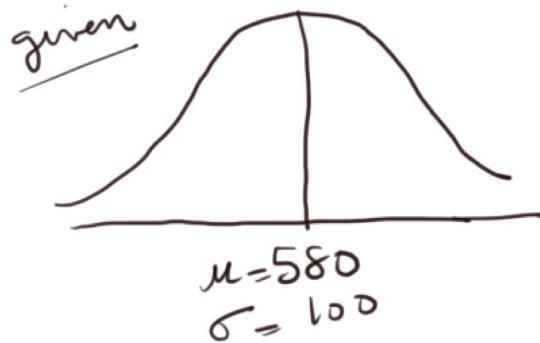
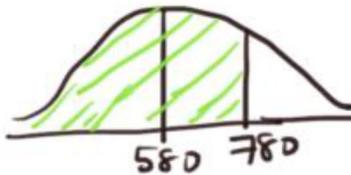


## Solutions



①



ans

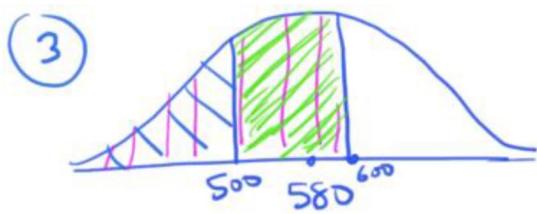
$pnorm(780, 580, 100,$   
lower.tail=T)

②



ans  $pnorm(500, 580, 100, \text{lower.tail=F})$

4

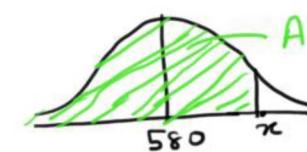


③

green area = pink area - blue area

$pnorm(600, 580, 100, \text{T})$

$pnorm(500, 580, 100, \text{T})$



$A = 95\% = 0.95$

$0.95 = pnorm(\bar{x}, 580, 100, \text{lower.tail=T})$

or we  $\Rightarrow \bar{x} = \sqrt{\text{qnorm}(A, \mu, \sigma, \text{lower.tail=T})}$