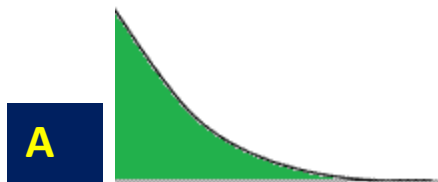
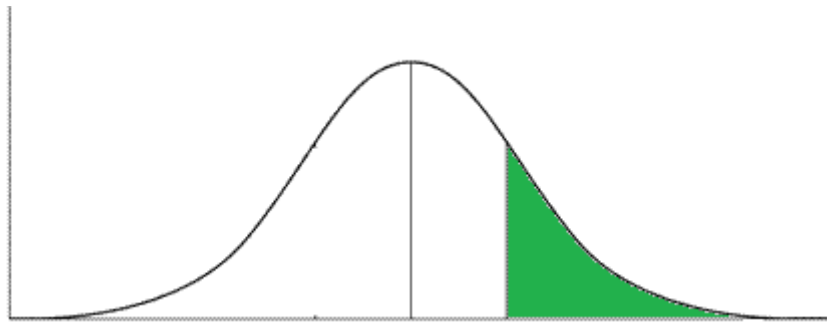


# Response to selection

(selection intensity - selection differential)



## Theoretically:

The smaller the selected portion, the larger the selection differential (SD) as in B

The larger the selection differential (SD), the higher will be the response to selection

$$R = SDxh^2$$

(assuming the heritability coefficient  $H^2$  is constant)

The question will remain how small the selected portion that leads to highest selection gain without **inbreeding** problems