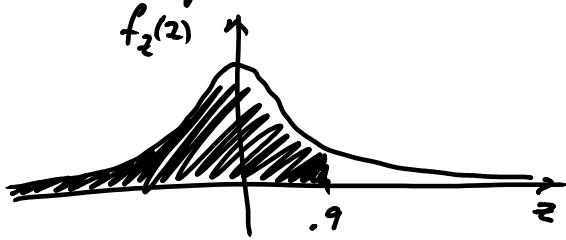


How to use the table of CDF values for the Standard Normal distribution

①  $F_z(a) = P(Z \leq a)$  for some  $a > 0$

For example  $P(Z \leq .9) = 0.8159$

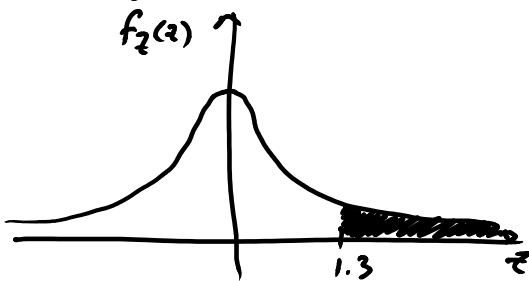


②  $1 - F_z(a) = P(Z > a)$  for some  $a > 0$

$$P(Z > 1.3) = 1 - P(Z \leq 1.3)$$

$$= 1 - 0.9032$$

$$= 0.0968$$

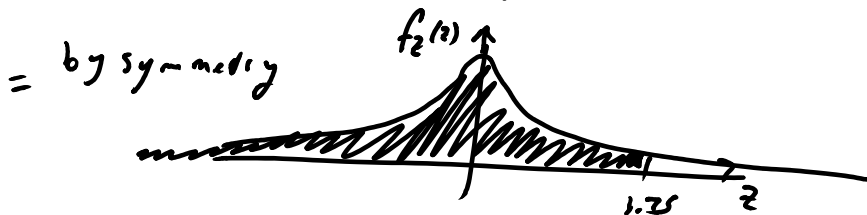
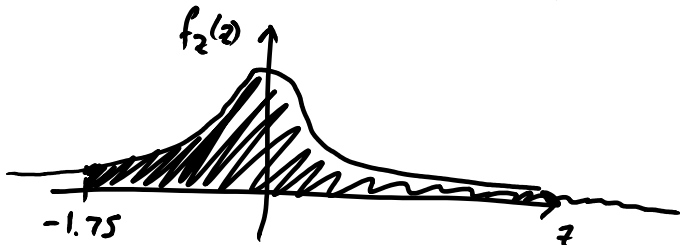


③  $P(Z > a) = 1 - F_z(a)$  for  $a < 0$

$$P(Z > -1.75) = P(Z < 1.75)$$

by symmetry

$$= 0.9599$$



④  $F_z(a) = P(Z \leq a)$  for some  $a < 0$  e.g.  $P(Z < -.2) = P(Z > .2)$

by symmetry

$$= 1 - P(Z \leq .2)$$

$$= 1 - 0.5793$$

$$= 0.4207$$

