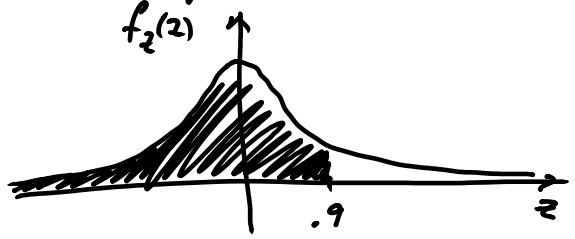
How to use the table of CDF values for the Standard Normal distribution

① $F_Z(a) = P(Z \le a)$ for some $a > 0$

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



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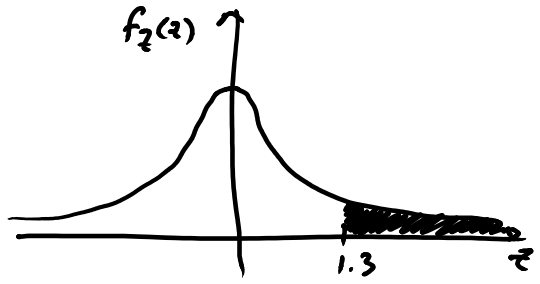
② $1 - F_Z(a) = P(Z > a)$ for some $a > 0$



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

$= 1 - 0.9032$

$= 0.0968$

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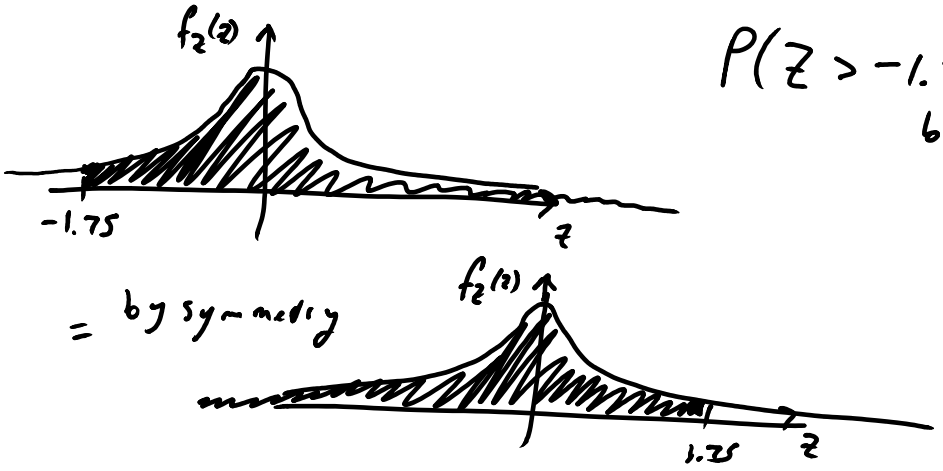
③ $P(Z > a) = 1 - F_Z(a)$ for $a < 0$



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

by symmetry

$= 0.9599$

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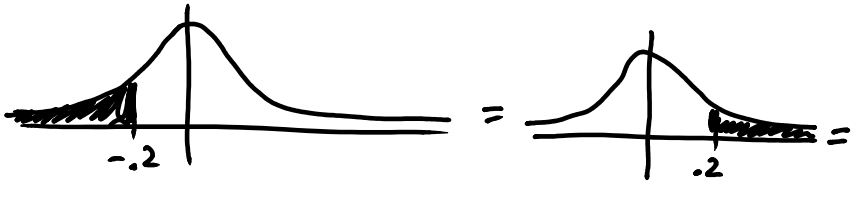
④ $F_Z(a) = P(Z \le a)$ for some $a < 0$



e.g. $P(Z < -.2) = P(Z > .2)$

by symmetry

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

$= 1 - 0.5793$

$= 0.4207$