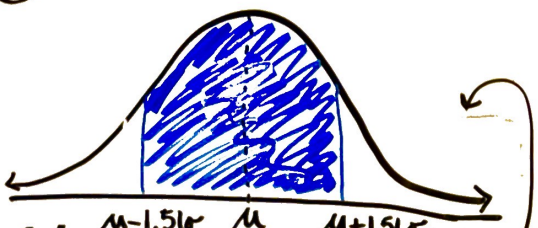
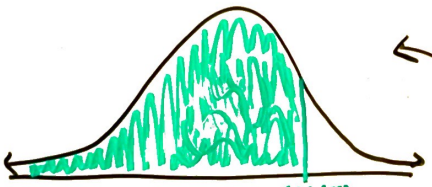
$X \sim N(\mu, \sigma)$ | 6.2.17 part b

Find probability that an observation falls in the shaded region.

① 

We want $P(-1.51 < z < 1.51)$

② 

The table gives us $P(z < 1.51) = 0.9345$

③

$P(z < -1.51) = 0.0655$

④ Take green minus red to get blue.

$P(-1.51 < z < 1.51) =$

$0.9345 - 0.0655$

$= 0.869$