

R code
3.2

```
# function to simulate weights of individuals from height
sim_weight <- function(H,b,sd) {
  U <- rnorm( length(H) , 0 , sd )
  W <- b*H + U
  return(W)
}
```

R code
3.3

```
H <- runif( 200 , min=130 , max=170 )
W <- sim_weight( H , b=0.5 , sd=5 )
plot( W ~ H , col=2 , lwd=3 )
```