5 m N (XB, 625) Now, wit = X } N(ef)=or(I+nf(x/x)-Inf) C.5 = caf+ tapt & c(1+n'f (x'x)+ Here, ûf! The predicted value of new observas 6 1 Estimated variance

```
43
45
46 # Coefficients for RET=3
47 beta 03 <- -4.27817
48 beta_13 <- 0.178304
49 X i <- 20
50 eta_i3 <- beta_03 + beta_13 * X_i
51 P_Y_i_3_given_X_i_20 <- exp(eta_i3) / (1 + exp(eta_i3))
52 print(P Y i 3 given X i 20) # 0.3291372
53
55
beta 0 <- 99.56799
beta 1 <- 21.61455
beta 2 <- -3.54113
x i <- 50
mu_i <- beta_0 + (beta_1 - beta_0) * exp(-(exp(beta_2 * x_i)))</pre>
```

print(mu_i) # 21.61455