9.220

$$\frac{dC}{dt} = 0.4 - 0.02C$$

$$C(t) = 20 - 20 \cdot (0.98)^t$$

```
c <- function(t){20-(20*(0.98)^t)}

x <- seq(0, 200, length=200)
y <- sapply(X=x, FUN=c)

plot(x, y, type='l', main = expression(20-20 %.% (0.98)^t))
grid()
```

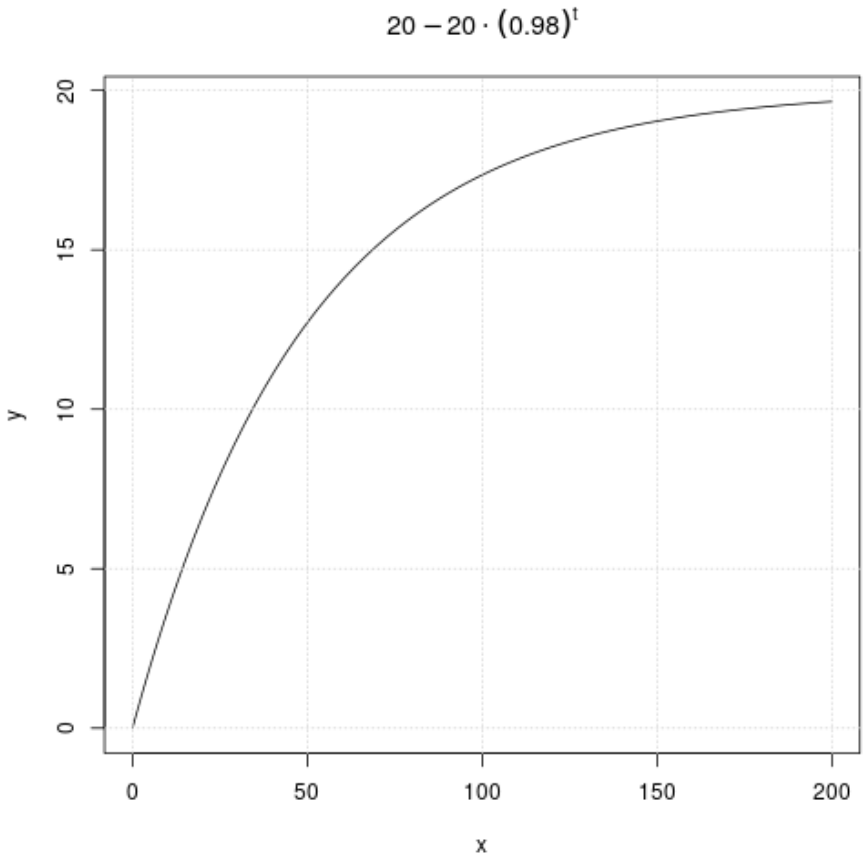

Figure 1: plot of chunk unnamed-chunk-1