Loading required libraries

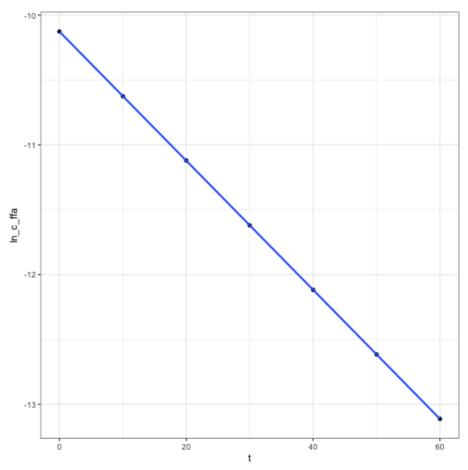
```
library(tidyverse)
library(broom)
```

Creating dataset from problem

```
ffa_data <- tribble(
  ~t, ~c_ffa,
 0,
       4e-5,
 10,
      2.43e-5,
 20, 1.48e-5,
 30,
      8.98e-6,
 40,
        5.46e-6,
 50,
        3.32e-6,
 60,
        2.02e-6
) %>%
 # adding ln(C_ffa) column
 \# log() function in R defaults to ln
 mutate(ln_c_ffa = log(c_ffa))
```

Plotting the log concentration of FFA vs time

```
ggplot(ffa_data, aes(t, ln_c_ffa)) +
  geom_point() +
  geom_smooth(method = "lm") +
  theme_bw()
```



Running linear model to get slope and intercept values.

term	estimate	std.error	statistic	p.value
(Intercept)	-10.1267742	0.0005306	-19087.002	0
t	-0.0497698	0.0000147	-3382.239	0