

The function `rss` below is meant to mirror the formula for RSS for a simple linear regression model.

$$\text{RSS}(b_0, b_1) = \sum_{i=1}^n (y_i - (b_0 + b_1 x_i))^2$$

`coef[1]` and `coef[2]` represent  $b_0$  and  $b_1$ , respectively and refer to the first two elements of a vector called `coef` which is the argument of the function.

- Write in your final values in each case in the spaces given. Comment on whether they match the results you got from your linear model object in the problem set.

| Starting $b_0$                     | Starting $b_1$                 | Final $b_0$ | Final $b_1$ |
|------------------------------------|--------------------------------|-------------|-------------|
| 0                                  | 0                              |             |             |
| Eyeballed <i>intercept</i> : _____ | Eyeballed <i>slope</i> : _____ |             |             |

- $$\text{RSABS}(b_0, b_1) = \sum_{i=1}^n |y_i - (b_0 + b_1 x_i)|$$

```
rsabs <- function(coef) {  
  
  
  
  
  
  
}
```

- | Starting $b_0$                    | Starting $b_1$                | Final $b_0$ | Final $b_1$ |
|-----------------------------------|-------------------------------|-------------|-------------|
| 0                                 | 0                             |             |             |
| Eyeballed <i>intercept</i> : ____ | Eyeballed <i>slope</i> : ____ |             |             |